USF Board of Trustees

Thursday, June 6, 2019
USF Marshall Student Center Ballroom
9:30 AM – 12:30 PM

A G E N D A

I. Call to Order and Comments
   Chair Jordan Zimmerman

II. County Commission Commendation
    Commissioner Sandra Murman

III. Special Update on USF Health and Tampa General Hospital Partnership
     USF Health Sr. VP Charles Lockwood
     TGH President and CEO John Couris

IV. New Business – Action Items (Minutes and Consent)
   a. FL 101 – Approval of Minutes
      Chair Zimmerman
      1. March 22, 2019
      2. April 1, 2019
      3. April 8, 2019
      4. April 23, 2019
      5. May 22, 2019
      6. May 30, 2019
   b. Consent Agenda (FL 102 – FL 119)
      Chair Zimmerman

      (BOT committee representatives may address approved items listed below. UFF representative may address any item that relates to terms and conditions of in-unit faculty employment.)

      Board members should notify the Assistant Corporate Secretary of any items they wish to be pulled from the Consent Agenda 48 hours prior to the meeting. Items pulled will be discussed and voted on separately after the remainder of the consent agenda is approved.

      Governance Committee Approved Item

      FL 102 – Approval of DSO Bylaw Amendments

      a. USF Institute of Applied Engineering
      b. USF Research Foundation, Inc.
      c. USF Property Corp.
d. USF Health Professions Conferencing Corp.
e. USF Financing Corp.
f. USF Foundation, Inc.
g. Sun Dome, Inc.
h. USF Alumni Association, Inc.

Academics and Campus Environment Committee Approved Items

FL 103 – Approval of Tenure as a Condition of Employment (USFT, April 8 meeting)
FL 104 – Approval of Proposed Ph.D. Informatics and Big Data Analytics (USFT)
FL 105 – Approval of Proposed B.S. Supply Chain Management (USFT)
FL 106 – Approval of Proposed M.S. Supply Chain Management (USFT)
FL 107 – Approval of Proposed B.S. Environmental Chemistry (USFSP)
FL 108 – Approval of Faculty Nominations for Tenure (USFT)
FL 109 – Approval of Tenure as a Condition of Employment (USFT)
FL 110 – Approval of Faculty Nominations for Tenure (USFSP)
FL 111 – Approval of Tenure as a Condition of Employment (USFSP)
FL 112 – Approval of Faculty Nominations for Tenure (USFSM)
FL 113 – Approval of Tenure as a Condition of Employment (USFSM)

Finance Committee Approved Items

FL 114 – Approval of 2019-20 Continuation Operating Budget
FL 115 – Approval of 2019-20 Preliminary Fixed Capital Outlay Budget
FL 116 – Approval of USF System Five-Year Capital Improvement Plan (2020-21/2024-25)
FL 117 – Approval of Authorization of Issuance of Debt for the Research Park Office/Lab Building
FL 118 – Approval of DSO 2019-20 Annual Financial Plans

a. University Medical Services Assoc., Inc & USF Medical Services Support Corp.
b. USF Foundation, Inc.
c. USF Research Foundation, Inc.
d. Sun Dome, Inc.
e. USF Institute of Applied Engineering
f. USF Health Professions Conferencing Corp.
g. USF Alumni Association, Inc.
h. USF Financing Corp. & USF Property Corp.

**FL 119 – Approval of Lease of Space to Tampa General Hospital**

c. New Business – Action Items

**FL 120 – Approval of Naming Projects** Sr. VP and USF Foundation CEO Joel Momberg

a. Krishnakanth Barri Conference Room at College of Engineering ($510,000)
b. Robert C. Rothman Defensive Staff Conference Room at USF Football Center ($250,000)
c. Hooters Huddle Outdoor Players’ Lounge at USF Football Center ($250,000)
d. Glenn H. Ruediger Coach’s Quarterback Room at USF Football Center ($100,000)
e. Copperhead Charities/Valspar Championship
   Short Game Area at USF Golf Center ($100,000)
f. Greenberg & Weiss Student Commons for MD Collegia Students
   at Morsani College of Medicine and Heart Institute at Water Street ($100,000)
g. Valeria Riddle and David Reader ’89 MD Collegia Suite
   at Morsani College of Medicine and Heart Institute at Water Street ($100,000)
h. Clara Schiller Perpetual Charitable Trust Lobby
   at Morsani College of Medicine and Heart Institute at Water Street ($50,000)
i. Lewis A. Barness, M.D. Lactation Room at USF Health Center for Wellness,
   Engagement, Leadership and Learning ($25,000)
j. The Genshaft Pavilion at USF Sarasota-Manatee
k. Weatherford Family Atrium
   at Morsani College of Medicine and Heart Institute at Water Street

**FL 121 – Approval of DSO Board Members**

a. USF Institute of Applied Engineering College of Engineering Dean Robert Bishop
b. USF Research Foundation, Inc. Sr. VP Paul Sanberg
c. USF Alumni Association, Inc. Sr. VP Joel Momberg
d. USF Foundation, Inc. Sr. VP Joel Momberg

V. New Business – Informational Items

a. **Flavors of Money – Board of Governors Presentation** Sr. VP David Lechner
   VP and CFO Nick Trivunovich

b. USF System Campus Updates

1. **USF Tampa** President Judy Genshaft
2. **USF St. Petersburg** Regional Chancellor Martin Tadlock
3. **USF Sarasota-Manatee** Regional Chancellor Karen Holbrook

VI. BOT Roundtable Discussion Chair Zimmerman

VII. Adjournment Chair Zimmerman
USF Board Committee

TGH Partnership Update

June 2019
About Tampa General Hospital

Placeholder for 4 min video
Overview of TGH & USF relationship
Posted in separate file
National Healthcare Perspective: AMCs
Across all missions, Academic Medical Centers are facing new market pressures.

Clinical Mission
- Increased competition from community hospitals with high end capabilities threaten to carve med school practices and AMCs from narrow networks
- Significant pressure from payors to demonstrate value—improved outcomes that justify higher cost
- Challenging payor mix
- Medicaid payments at risk

Research Mission
- NIH success rates low
- Pockets of commercial grant growth, but less lucrative indirect coverage
- Rising costs to support research infrastructure, need for expensive cores
- Intense competition for NIH funded researchers creating a “free-agents” commanding larger salaries and larger start-up packages

Educational Mission
- Cost of medical student education increasing due to focus on faculty-intensive small group – active learning
- Increased focus on student debt, constraining tuition increases
- No new federal GME funding to support more positions but intense need for more slots in Florida
The Virtuous Cycle for Academic Medical Centers

More than ever, an integrated academic and clinical model is necessary to establish the conditions for AMCs to thrive in the crowded health care landscape.

Academic Medicine’s Virtuous Cycle

Investment of clinical practice income in Academic Enterprise

Increased patient referrals, clinical faculty quality, and overall success

Increased research productivity, tech transfer, leverage to external support

Improved stature and visibility for clinical & research enterprises

Source: The Relationship Between the University of Pittsburgh School of Medicine and the University of Pittsburgh Medical Center—A Profile in Synergy, Academic Medicine, Vol. 83, No.9, September 2008.
Integration Matters Among the Top Schools & Hospitals

Among the top ranked US News & World Report Medical Schools and Hospitals, the majority have pursued an integrated model bolstering academics and clinical care.

### Top 10 Medical Schools (Research)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Medical School</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td>2</td>
<td>Johns Hopkins Medicine</td>
</tr>
<tr>
<td>3</td>
<td>Stanford Medicine</td>
</tr>
<tr>
<td>4</td>
<td>Perelman School of Medicine, University of Pennsylvania</td>
</tr>
<tr>
<td>5</td>
<td>UCSF School of Medicine</td>
</tr>
<tr>
<td>6</td>
<td>Columbia University Vagelos College of Physicians and Surgeons</td>
</tr>
<tr>
<td>7</td>
<td>David Geffen School of Medicine</td>
</tr>
<tr>
<td>8</td>
<td>Washington University in St Louis School of Medicine</td>
</tr>
<tr>
<td>9</td>
<td>Weill Cornell Medicine</td>
</tr>
<tr>
<td>10</td>
<td>Mayo Clinic College of Medicine and Science</td>
</tr>
</tbody>
</table>

### Top 10 Hospitals

<table>
<thead>
<tr>
<th>Rank</th>
<th>Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>2</td>
<td>Cleveland Clinic</td>
</tr>
<tr>
<td>3</td>
<td>Johns Hopkins Medicine</td>
</tr>
<tr>
<td>4</td>
<td>Massachusetts General Hospital</td>
</tr>
<tr>
<td>5</td>
<td>University of Michigan Hospital</td>
</tr>
<tr>
<td>6</td>
<td>UCSF Medical Center</td>
</tr>
<tr>
<td>7</td>
<td>UCLA Health Ronald Reagan UCLA Medical Center</td>
</tr>
<tr>
<td>8</td>
<td>Cedars-Sinai Medical Center</td>
</tr>
<tr>
<td>9</td>
<td>Stanford Hospital &amp; Clinics</td>
</tr>
<tr>
<td>10</td>
<td>NewYork-Presbyterian</td>
</tr>
</tbody>
</table>

Source: USNWR Best Medical Schools for Research, 2020; Best Hospitals, 2018-2019
AAU Member Universities Pursuing Greater Clinical Integration with Health System Partners
What We Intend to Accomplish

As a result of an extensive review process that began last year, our consultants affirmed that USFH & TGH are uniquely positioned to take advantage of their position in the Tampa market.

AMC Position

Together, USFH and TGH can capitalize on being the only AMC in the region (Gulf Coast of Florida) and seek to grow market share in key sub-specialties.

Market Growth

Improved alignment between USFH and TGH will allow us to create a primary care base and provide enhanced coordination of care to capture market growth opportunities.

Partnerships

Combined, USFH and TGH creates significant value that will be better positioned to pursue impactful partnerships as they arise.

Leveraging a strong and coordinated USFH-TGH affiliation will lead to enhanced market and economic growth.
Advantages to USF – Why We’re Doing This

There are specific benefits to the partnership that will provide stability to the University and enhance the operations of USF Health in the future.

- **Supports greater investment in academics**
  - Academic funding is linked to the growth of entire academic medical center, including hospital assets, not just the faculty practice
  - Provides incremental funding opportunities as the performance of the academic medical center improves

- **Enhances ability to recruit**
  - Aligns hospital and physician interests in recruiting, allowing larger scope and scale of hiring and preventing the need to negotiate individual support agreements for new hires

- **De-risks USF’s clinical enterprise**
  - Reduces potential impact to USF of any future declines in state funding for Medicaid and guards USF against managed care headwinds
Advantage to the Community
As USF & TGH come together to form a more integrated AMC, we will actively seek opportunities to partner with our private practice physicians, other health systems, and community organizations.
Shared Vision and Guiding Principles

This past year, leaders from USFH & TGH collaborated to establish a shared vision and guiding principles for an enhanced partnership.

**Shared Vision:**

For USFH and TGH to build upon their longstanding affiliation and become Florida’s leading AMC through a sustainable, collaborative and comprehensive partnership that mutually benefits each organization and creates a platform for collaboration with other organizations across the state, across all missions including clinical, teaching, research and advocacy.

**Guiding Principles:**

1. Function as Single AMC
2. Joint Affiliation Committee (*shared governance*)
3. Embrace Best Practices
4. Cross-Representation on Boards
5. Integrated Physician Organization
6. Mutual Exclusivity
7. Physician Leadership
8. Co-Investments
9. Consolidate Infrastructure
10. Performance-Based Arrangements
11. Mission Support
Affiliation Overview

The affiliation will include a Joint Venture Medical Group governed by TGH and USF representatives along with 50/50 split JAC to guide overall strategy.
Partnership Economic Model

The economic model preserves the Dean’s Tax and historical practice plan margin by tying it to the clinical enterprise’s NPSR and operating margin.
Protecting USF in the Path Forward

The partnership discussions to date have had a thoughtful approach to ensuring that USF’s interests are protected.

1) Sovereign immunity remains
   - Proposed structure will protect sovereign immunity of USF physicians in their clinical practice

2) Bond payments secured
   - UMSA’s revenue will pay required annual debt service on any bond obligations before transfer to NewCo

3) State assets not impaired
   - Assets will continue to be owned by the University with the management overseen by the partnership

4) Faculty remain employed by the University
   - Academics continue to be employed by USF, protecting the research mission of the University
National Medical Districts Examples – Houston and Boston

Medical Districts inspire medical breakthroughs, and encourage innovation through collaboration. The national economic impact of medical schools and teaching hospitals can increase the size of the economy by $562B, which equates to about 3.1% of US GDP and roughly $1,750 per person, according to Academic Medicine; 2012 July; 87(7):982-987
Tampa Bay’s First Medical District
Questions?
The Board of Trustees preparation meeting prior to the interviews was called to order at 8 a.m. with the following Trustees present:

Trustees Horton, Mullis, Lamb, Zimmerman, Muma, Michael, Carrere, Kheireddine, Ramil, Goforth, Shinn, and Tokarz.

Chair Lamb provided background on format and logistics of interviews
- Trustee Muma will do introductions of candidates
- Rhea Law will moderate and ask a series of preset questions. Trustees are encouraged to ask follow-up questions. Last 15 minutes will be devoted to candidate to ask trustees questions, would like additional discussion.

**Dutta Interview – 8 – 9:15 a.m.**
- Self introduction
- RL questions and trustees’ follow-up

**Vitter Interview – 9:45 – 11 a.m.**
- Self introduction
- RL questions and trustees’ follow-up

Break for lunch

**Blanchett Interview – 11:45 a.m. – 1 p.m.**
- Self introduction
- RL questions and trustees’ follow-up

**Currall Interview – 1:30 – 2:45 p.m.**
- Self introduction
- RL questions and trustees’ follow-up

After a short break, the Board of Trustees convened a special meeting. Chair Lamb reviewed the search process over the last several months – “covered a lot of ground” and called the meeting to order at 3:13 p.m. He asked Dr. Visot to call roll.

The following trustees were present: Carrere, Goforth, Horton, Kheireddine, Lamb, Michael, Mullis, Muma, Ramil, Shinn, Tokarz and Zimmerman. Trustee Watkins joined the call prior to candidate discussion and Trustee Goforth had to leave meeting prior to vote due to flight taking off.

**Action Items:**

**FL 101** – Approval of compensation range and package for new President, based on the Compensation Study. Chair Lamb called on Vice Chair Zimmerman to present the item.
Vice Chair Zimmerman reviewed the study and shared that the new president’s compensation must be consistent with valid compensation study, as per the BOG policy. He shared the following:

The compensation study provides comparative data for the financial terms the Board may choose to offer the successful candidate. The compensation study includes comparison data for:

- USF’s national and aspirational peers as defined by our Strategic Plan;
- our Florida Preeminent peers;
- other large, public metropolitan Florida universities; and
- data for public universities classified as very high research activity with a medical school. This classification allows for comparison in this highly complex peer group. Given USF’s strategic emphasis on research and health this data is highly relevant.

There are several areas of compensation that should be considered before finalizing the compensation terms of the contract. Some areas will be familiar to the Board, such as the mix of guaranteed and performance based pay. Other areas are new to the Board not because they are uncommon in executive compensation, but because with our excellent, long serving president, we have not had to consider compensation for relocation expenses.

Our objective for this agenda item is to identify the ranges for a competitive compensation package addressing:

1. base compensation;
2. performance based compensation;
3. deferred compensation;
4. relocation expenses, such as housing and moving; and
5. automobile for official use.

Regardless of the relative mix of compensation, the Board has consistently put a significant percentage of the president’s total compensation into an at risk performance-based bonus. I think we all recognize this model has served the University well and should be appealing to the type of individual we intend to hire.

1. **base compensation range: $550,000.00 - $600,000.00**
   - This is competitive to our market and our peers, especially those with our same research classification and with medical schools. It puts more in base than our current contract, but it communicates confidence in our next president and recognizes the challenges and opportunities present.

2. **performance based compensation range: $250,000.00-$300,000.00**
- This level of bonus opportunity is consistent with current levels and continues the Board’s practice of placing significant amounts of compensation at risk. This also communicates the high value the Board places on the achievement of these goals. The price of failure on these goals is equally significant.

3. **deferred compensation (% of base salary): 20% of base accrued annually**

- Deferred compensation creates a mutual incentive to retain a high performing president while also providing USF’s next president a level of security in personal financial planning.

4. **one-time relocation expenses: $100,000.00**

- This one-time payment is routine in relocating executives and allows our next president to plan for a smooth transition and to focus on immediate workplace duties. This payment could be used to cover costs such as moving, storage, temporary housing and/or the sale of a residence.

5. **housing: $84,000.00/year**

- This is a recurring payment common in executive compensation packages. It is not unusual for a president to routinely use a personal residence for work functions. The fact of the matter is that USF does not currently have a suitable on-campus presidential home. This payment is deliberately not tied to base and will not increase over the term of the contract. Should the President elect to live in the Lifsey House, then the housing allowance would not be paid.

6. **automobile: $12,000.00/year**

An automobile allowance is in the current contract at approximately the same level as presented. Discussion occurred with trustees asking questions:

- Are recommendations consistent with the data provided in the form of the compensation study? – yes;
- Could moving expense and how it could be used in the event of old home not being sold? – yes, even though markets are good; it was confirmed this is a one-time payment;
- Do the recommendations seem to position next president favorably with respect to UF and FSU presidents’ compensation – yes

Several trustees expressed support of proposed package; noting that it hits in the middle of the market as presented in the compensation study. Several trustees commented they are supportive of the package.

A motion was made by Trustee Muma to approve the compensation ranges presented by Vice Chair Zimmerman with the understanding that the Board Chair would have the discretion to negotiate the final numbers within the approved ranges. The motion was seconded by Trustee Ramil and unanimously approved by those in attendance (person/call).
**FL 102 – Contract Approval**

Chair Lamb called on Vice Chair Zimmerman and General Counsel Solis to discuss the contract.

GC Solis gave an overview of new terms to the contract including differences to the current presidential contract.

Motion by Trustee Mullis to (1) approve the substantive terms and form of the presidential contract; and (2) delegate authority to the Board Chair to make non-material changes to the contract as needed in negotiations with the final candidate. Any non-material changes will be consistent with the Board’s motion on presidential compensation.

The motion was seconded by Trustee Horton and was unanimously approved.

**FL 103 – Approval on 7th USF President of USF**

Chair Lamb introduced Jan Greenwood to speak about background checks, referencing, etc. and thanked her for her work.

Dr. Greenwood shared: over 269 prospects initially reviewed by the Presidential Search Committee; of the candidates brought to campus for interviews, all were considered qualified and competent to do the job – all have AAU and a wide breadth of experience (multi-campus); soft skills assessment was done and all did well.

Dr. Greenwood indicated that based on referencing and background checks performed, all candidates brought to campus were qualified for the position and were recommend and eligible for consideration. She indicated that the final candidate would undergo an additional background check.

Questions and comments to Dr. Greenwood from Trustees:

Multiple Trustees expressed gratitude to search consultants for work done; Trustee Muma stated that he communicated often with consultants as permitted under the sunshine laws, which give public confidence and credibility in how university operates, but he questioned if the sunshine law can hurt the search – yes sunshine laws often knock out sitting presidents and chancellors as it hurts donor relations with the universities for a sitting president to publically have it known that they may be leaving their current institution. Dr. Greenwood stated, however, that it does not mean candidates are better or worse, just different candidates from a search not covered by the sunshine laws.

The Chair felt the Board was ready to discuss where everyone is about candidates and thinks they are ready to make this decision. He shared that approximately 500 pages were sent out to prospects over 200 profiles examined to determine USF qualifications, all in 180 days, 15 search committee members narrowed the field to 4 candidates for on campus interviews. The Chair stressed a lot has gone into getting Board to the number 1 candidate – stressing a lot of work and effort has occurred. The Chair asked the trustees to think about positive themes that have informed their personal decision as a trustee in selecting the president and where they saw distinguishing themes or characteristics to help make a decision; and think about the profile that was previously established. He turned to Trustee Muma who chaired the search committee.
Trustee Muma acknowledged work done by Chair Lamb and search committee Vice Chair Rhea Law. He stressed that he feels they came up with outstanding final candidates but none were better than the final four. He shared that there were a lot of the positive characteristics from the profile in the finalists and believes any of the four could run USF and keep up the current trajectory. He requested that only positive comments be shared as negative comments will not help the process and could hurt future searches for finalists.

The Chair started with Trustee Watkins due to being on phone with limited time.

Trustee Watkins: regretted not being able to be present in person, but had one on one time with finalists after their search committee interview; each candidate has uniqueness over the other – it is all about finding the right balance and providing right leadership. Similar theme throughout the trustees.

Chair Lamb asked each trustee to provide their recommendation:

- Trustee Muma: Currall
- Trustee Ramil: Currall
- Trustee Horton: Currall
- Trustee Mullis: Currall
- Trustee Zimmerman: Currall
- Trustee Michael: Currall
- Trustee Carrere: Currall
- Trustee Kheireddine: Dutta
- Trustee Shinn: Currall
- Trustee Tokarz: Vitter, will not oppose Currall (was #2)
- Trustee Watkins: Currall

The Chair thinks alignment and consensus are important therefore wanted to clarify the recommendations. Both Trustee Tokarz and Trustee Kheireddine clarified that they would fully support Dr. Currall’s selection as the next president notwithstanding their own recommendations.

Trustee Muma moved to select Steven Currall as the 7th President of the University of South Florida. Trustee Mullis seconded the motion. The motion was unanimously approved of all present in person and on the phone with no one dissents. Dr. Steven Currall was named 7th President of the University of South Florida pending Board of Governors’ confirmation.

The Board took a break so that a call to all finalists could be made and Dr. Currall can return to campus.

President Genshaft provided introductory remarks to the Board and USF community before introducing Dr. Steven Currall and his spouse Dr. Cheyenne Currall.

President-elect Currall provided remarks, thanking the Trustees for their faith in him and that he looks forward to meeting with the Florida Board of Governors next Thursday for confirmation.

The Chair congratulated the President-elect and adjourned the meeting.
Chair Brian Lamb convened the conference call of the University of South Florida Board of Trustees at 2:30 PM and asked President Judy Genshaft to call roll.

**President Genshaft called roll with the following trustees present on the call:**

Trustee Michael Carrere  
Trustee Stephanie Goforth  
Trustee Oscar Horton  
Trustee Moneer Kheireddine – not in attendance  
Trustee Brian Lamb  
Trustee Deanna Michael – not in attendance  
Trustee Harold Mullis  
Trustee Leslie Muma  
Trustee John Ramil  
Trustee Byron Shinn  
Trustee Charles Tokarz  
Trustee Nancy Watkins  
Trustee Jordan Zimmerman

Chair Lamb began by discussing the “dynamic and historic week” in Tallahassee and reiterated his personal and the Board’s institutional commitment to staying transparent, particularly as it related to governance issues. Before moving on, he reported to the Board on the presentation President Genshaft gave to the Board of Governors on the university’s progress relating to and focus on research and the strategies USF has for sustaining them. Chair Lamb made special note that President Genshaft received a standing ovation for being recognized by the NCAA with the Living Legend Award at the Women’s Basketball Final Four.

Chair Lamb also made remarks and congratulations to President-elect Steven Currall for receiving unanimous confirmation from the Board of Governors as USF’s 7th president. He informed the Board that Governor Darlene Jordan spoke highly of USF’s search committee and the process that was followed in selected President-elect Currall.

Chair Lamb then informed the trustees of Governor Ron DeSantis’ surprise appearance at the Board of Governors meeting where he announced his intentions to nominate the Chair to the Board of Governors. Chair Lamb reported that Governor DeSantis spoke of the significant impact that achieving preeminence has had at USF and that these accomplishments only reinforced his beliefs in higher education.
Before turning the call over to Vice Chair Jordan Zimmerman, Chair Lamb spoke about how his passion for USF will always continue and that he will always bleed green and gold and that this call is important for providing clarity for the Board’s future.

Vice Chair Zimmerman began by thanking Chair Lamb, “Governor Lamb,” for all of his service to USF, his commitment to students and his passion for the state of Florida and the State University System as a whole.

**FL 101 – Election of Chair and Vice Chair**

Vice Chair Zimmerman made remarks about the Board’s legal authority to elect its chair and vice chair, both of whom serve a two-year term. He also provided a breakdown of the duties and responsibilities for each position: that the chair shall preside at all meetings of the Board of Trustees, call special meetings of the Board when necessary, attest to actions of the Board and notify the Governor in writing whenever a Board member fails to attend three consecutive meetings in any fiscal year, which failure may be grounds for removal. The vice chair shall act as chair during the absence or disability of the chair and, in that event, shall perform those duties of the chair. Vice Chair Zimmerman asked General Counsel Gerard Solis to confirm that the duties and responsibilities were correctly stated for the minutes and Mr. Solis confirmed they were.

Before moving on, Chair Lamb then informed the Board that with his appointment to the Board of Governors he would be resigning from the Board of Trustees and that his decision was not made lightly, but wanted to ensure both boards would have the attention they each deserve. Vice Chair Zimmerman reiterated his thanks to Mr. Lamb and that he is proud to have him on the Board of Governors where he will “carry the torch” for USF.

Vice Chair Zimmerman then opened the floor for nominations for chair. Trustee Hal Mullis nominated Vice Chair Zimmerman, who accepted the nomination and then opened the floor for approval—his election as Chair of the Board was unanimously approved. Chair Zimmerman then made remarks on how honored he has been to serve on the Board and now leading it and he asked his fellow trustees to remain committed to the Board and USF in continuing the upward trajectory they have been on.

Chair Zimmerman then opened the floor for nominations for vice chair. Trustee Byron Shinn nominated Trustee Les Muma, citing his dedication and leadership to USF, especially in chairing the presidential search. Trustee Muma accepted the nomination and received unanimous approval from the Board. Chair Zimmerman welcomed and congratulated Vice Chair Muma on his new position.

Chair Zimmerman then took time to fully highlight Governor Lamb’s ten years on the Board:

- Leading a successful confirmation for President-elect Currall with the Board of Governors
- Achieving designation as a Preeminent Research University
- Completed $1 billion Unstoppable Campaign
- Completed largest P-3 in State University System history with first on-campus Publix in the state
- Top tier for Performance-Based Funding metrics
• Secured support from legislature for funding for downtown Morsani College of Medicine and Heart Institute
• Worked closely with President Genshaft and her leadership team throughout entire tenure
• Prior to chairmanship, led the Academics and Campus Environment Committee for four years, focusing on student success and accountability plans
• Has always made it a priority to enhance the Board and USF’s relationship with state legislators, Board of Governors and the Governor

Chair Zimmerman then opened the floor for comments from the Board. Trustee John Ramil offered congratulations to Chair Zimmerman, Vice Chair Muma and Governor Lamb for their new positions, as well as President Genshaft for her NCAA Living Legend Award. Vice Chair Muma responded that he appreciates the vote of confidence and is looking forward to working more closely with Chair Zimmerman. Trustee Deanne Michael thanked Governor Lamb for his attention to detail of student diversity, particularly when it came to the work being done by the Academics and Campus Environment Committee—his leadership of the Board helped reinforced this commitment university-wide. Governor Lamb responded with his thanks to Trustee Michael.

Trustee Mullis stated he was hopeful to have a chance to thank Governor Lamb in a more appropriate fashion later on and that he is thankful for his service and for effective and compelling leadership. Governor Lamb responded with his thanks to Trustee Mullis for his support and collaboration over their years together on the Board.

With no further comments, Chair Zimmerman thanked everyone for participating in the call and adjourned at 3:03 PM.
Chair Jordan Zimmerman called to order the special meeting of the University of South Florida Board of Trustees at 4:32 PM.

Before starting on the agenda, Trustee Byron Shinn wanted to allow Dean Moez Limayem of the Muma College of Business to share some good news. Dean Limayem thanked the Board for their time and announced that Dr. Mark Taylor, the current department chair and professor of accountancy at Case Western Reserve University, an AAU institution, would be joining USF as the director of the Lynn Pippenger School of Accountancy in the summer.

Chair Zimmerman congratulated Dean Limayem on hiring Dr. Taylor and thanked Academics and Campus Environment Committee Chair Stephanie Goforth and the other trustees for their work with the Accountability Plans. He then asked President Judy Genshaft to call roll.

**President Genshaft called roll with the following trustees present:**

- Trustee Michael Carrere – not in attendance
- Trustee Stephanie Goforth
- Trustee Oscar Horton
- Trustee Moneer Kheireddine
- Trustee Deanna Michael
- Trustee Harold Mullis
- Trustee Leslie Muma (via phone)
- Trustee John Ramil (via phone)
- Trustee Byron Shinn
- Trustee Charles Tokarz
- Trustee Nancy Watkins
- Trustee Jordan Zimmerman

Chair Zimmerman then asked Trustee Goforth to present the committee’s recommendation. Trustee Goforth highlighted the nearly two and a half hours spent going over the Accountability Plans and that they would provide a much better understanding for the Board on the direction of the university. She informed the Board that the committee unanimously approved each Accountability Plan and asked for one motion for all four. Trustee Nancy Watkins made a motion, with a second from Trustee Shinn—the motion was approved unanimously.

Chair Zimmerman thanked the Board again for their attendance today and adjourned the meeting at 4:37 PM.

The Accountability Plans as submitted to the Florida Board of Governors can be found online here.
Chair Jordan Zimmerman called to order the special meeting of the University of South Florida Board of Trustees at 10:02 AM. Chair Zimmerman thanked everyone for joining the call with limited notice and asked President Judy Genshaft to call roll.

**President Genshaft called roll with the following trustees present:**

Trustee Michael Carrere – not in attendance  
Trustee Stephanie Goforth (via phone)  
Trustee Oscar Horton (via phone)  
Trustee Moneer Kheireddine – not in attendance  
Trustee Deanna Michael (via phone)  
Trustee Harold Mullis (via phone)  
Trustee Leslie Muma – not in attendance  
Trustee John Ramil – not in attendance  
Trustee Byron Shinn – not in attendance  
Trustee Charles Tokarz (via phone)  
Trustee Nancy Watkins (via phone)  
Trustee Jordan Zimmerman (via phone)

Chair Zimmerman then reminded the Board the purpose of today’s call was to review USF’s certification of funding sources for capital projects and the review of construction accounting and control structure. He informed the Board that although no voting would occur, the meeting is important to the Board’s oversight functions and commitment to transparency. He reminded everyone that Trustee Nancy Watkins, as chair of the Board’s Audit and Compliance Committee, worked with University Audit and Compliance (UAC) staff members to lead an objective and independent review. By working with UAC, Trustee Watkins had timely access to all relevant materials, resources, and personnel. Chair Zimmerman also reminded the Board of Trustee Watkins’ collaboration with the Florida Board of Governors in conducting the review. He then turned the call over to Trustee Watkins.

Trustee Watkins informed the Board that three final reports were published and thanked UAC’s Executive Director and Chief Internal Auditor Virginia Kalil for all of her hard work and dedication and that of her staff. Trustee Watkins then made the following remarks:

The review conducted covered the use of Education and General (E&G) carryforward (CF) funds in capital projects and consisted of three components: to validate the population of projects (there are 51 in total) included in the university’s certification was complete and consistent with the Board of Governors’ (BOG) definition of a new capital project; to determine the projects which utilized E&G or E&G CF funds and validate utilization of these funds and other funding sources were appropriate; and to verify the Patel Center for Global Solution project information disclosed was accurate and complete.
The first report focuses on the use of E&G CF funds in the construction of the Patel Center. It is notable that throughout the life of the project there were significant changes in its scope, resulting in a reduction of costs from $40 million to $21.7 million. The Patel Center was approved approximately 15 years ago and completed over eight years ago, and in that time key personnel has changed. All nine remaining current employees were interviewed. Detailed information regarding Audit’s review of the USF Certification with Exceptions regarding the Patel Center project can be found in Attachment C of the report.

Based on Audit’s review of the Patel Center project, no evidence was found to indicate collusion, intentional misallocation of E&G CF funds, or that USF leadership made an overt attempt to conceal the use of or personally benefit from the misallocation. Rather, Audit identified several control deficiencies which directly contributed to the misallocation comingling of funds. After review of previous Board meeting minutes and interview with Board members there was no indication that the Board was told about the change in scope or usage of funds. Various control deficiencies that occurred during the Patel Center project have been corrected; many accounting processes have been centralized, allowing the university to have a higher level of expert oversight.

A total of $10 million of E&G CF funds was transferred from the Provost’s Office to the Construction Fund. The Provost’s Office had a responsibility to ensure the funds provided were allowable based on CF guidelines and the projected costs provided by Facilities Planning Design and Construction (FP-DC) and FP-DC had a responsibility to ensure funds entrusted to them were spent consistently with projected costs and spending restrictions. While both transfers specified allowable intended uses for the funds, lack of controls led to misallocating $5.7 million of the total $10 million transferred. It is important to note again that many of the previous operating procedures used during the Patel Center project are no longer in place.

Audit’s second report of this review focused on verification of the accuracy and completeness of the university’s certification, including the population of projects reported and the appropriate use of E&G, E&G CF funds, and other funding sources.

The USF certification indicated, “USF has constructed approximately fifty one new capital projects totaling $551 million, including multiple new projects adding more than 10,000 gross square feet of space or exceeding $2 million in cost.”

Based on the review, Audit determined all new capital projects meeting the BOG certification criteria were included in the 51 capital projects certified. In addition, Audit determined the projects certified by USF exceeded the BOG requirements as follows: Thirty capital projects, with certified expenditures totaling $140 million, met the Florida Statute Chapter 1013.01 definition of renovations, repairs, or remodeling, and were not required to be included in the certification. Four of the remaining 21 capital projects, with certified expenditures totaling $35 million, were approved by the BOT prior to July 1, 2008 and were not required to be included in the certification.

During the review, Audit also validated the funding sources for all 51 capital projects included in the certification, utilizing a variety of internal and external sources, in order to determine which projects
utilized E&G or E&G CF funds. Of these total 51 projects, only 17 were to be reviewed by the Board of Governors’ directive, but Audit decided to still review all 51. Audit determined 29 of the 51 projects certified utilized E&G or E&G CF funds for a portion of the project costs. Audit reviewed the utilization of E&G and E&G CF funds to determine if the use was authorized in Chapter 1013 Florida Statutes and BOG Regulation 9.007(3), as well as BOG staff guidance regarding use of E&G and E&G CF funds in construction projects. While the review focused on the utilization of E&G and E&G CF funding, Audit also verified whether additional funding sources were appropriate.

When completing the BOG certification, USF made two primary assumptions: Statutory definitions contained in Chapter 1013 Florida Statutes were to be used to define the terms in the BOG certification where the same or substantively similar terms were used; and BOG guidance, regarding both the certification and the use of E&G and E&G CF funds in construction projects, was to be treated as an authorization for the purpose of the USF certification. Of the 51 projects reviewed only the Patel Center funds were used inappropriately.

Lastly, Audit reviewed the current construction accounting and control structure and concluded that current procedures in place are adequate, assuming corrective actions are taken timely to address the seven medium-priority risks included in the report.

Trustee Watkins ended her remarks and then asked if there were any questions. Chair Zimmerman thanked Trustee Watkins and congratulated her on a job well done. Trustee Oscar Horton asked what the next steps were with moving forward with this report and the Board of Governors; Trustee Watkins responded that this was a State University System process, not isolated to USF, and that the BOG has been in the loop the whole time and that this, as of now, is just for informational purposes.

Chair Zimmerman asked for confirmation that there were improved controls in place; Trustee Watkins confirmed there were seven already in place. Trustee Hal Mullis echoed Chair Zimmerman’s remarks that the review is thorough, independent and transparent and thanked Trustee Watkins and the UAC team for their work.

Before closing the meeting, Trustee Mullis also made comments of congratulations for USF officially receiving its chapter of Phi Beta Kappa on April 22.

Chair Zimmerman thanked the Board again for their attendance and adjourned the meeting at 10:29 AM.
Chair Jordan Zimmerman called to order the special meeting of the University of South Florida Board of Trustees at 9:17 AM. Chair Zimmerman stated that he was thrilled to bring the Board together for today’s historic announcement of the largest single gift, that the Board can identify, to a university by its sitting president. Chair Zimmerman informed the Board that the press announcement would occur after the meeting and then asked Dr. Cindy Visot to call the roll.

**Dr. Visot called roll with the following trustees present:**

Trustee Michael Carrere (joined meeting after roll)  
Trustee Britney Deas – not in attendance  
Trustee Stephanie Goforth  
Trustee Oscar Horton (via phone)  
Trustee Deanna Michael (joined meeting after roll)  
Trustee Harold Mullis  
Trustee Leslie Muma  
Trustee John Ramil  
Trustee Byron Shinn  
Trustee Charles Tokarz  
Trustee Nancy Watkins (via phone)  
Trustee Jordan Zimmerman

Chair Zimmerman then asked Senior Vice President Joel Momberg to introduce the agenda item. Mr. Momberg read the resolution:

WHEREAS, for over nineteen years Judy Genshaft has served as the 6th President of the University of South Florida, leading the University to the distinctive status as a Preeminent Florida university and achieving unprecedented success in achieving its goals; and

WHEREAS, Judy Genshaft and Steven Greenbaum have been generous and steadfast supporters of USF with philanthropic giving over $10 million to support study abroad scholarships, support for USF Athletics, USF Health and numerous other areas of the University; and

WHEREAS, Judy Genshaft and Steven Greenbaum have now made a gift of $20 million to support the construction of the USF Honors College; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of USF; and
WHEREAS, the Chair of the Board of Trustees, in recognition of the significant and historic contributions described above by Judy Genshaft and Steven Greenbaum, recommends naming of the Honors College which incorporates all undergraduate disciplines, regardless of campus location, in their honor as the Judy Genshaft Honors College.

Chair Zimmerman thanked Mr. Momberg and called this day an amazing and historic day. He then called on Trustee John Ramil, the Board’s longest serving trustee, if he would like to make the motion. Trustee Ramill made the motion to rename the Honors College to be the Judy Genshaft Honors College, in recognition of two great citizens of the Tampa Bay region, Judy Genshaft and Steven Greenbaum. Trustee Hal Mullis seconded the motion. Before voting, Chair Zimmerman allowed the Board to make any comments.

Trustee Stephanie Goforth called the gift incredible and one that would have a lasting effect forever. Trustee Les Muma called President Genshaft and Mr. Greenbaum legends; Trustee John Ramil recalled when the original Board hired President Genshaft they gained two supporters, herself and her husband. Trustee Mullis stated he was stunned by the generosity of the gift, but was not surprised given how big of a part USF has been in President Genshaft and Mr. Greenbaum’s lives and vice versa. Trustee Oscar Horton commended the President and the gift as another example of great leadership; Trustee Byron Shinn echoed these comments by calling this a transformational gift. Trustee Charlie Tokarz stated he was blown away and Trustee Nancy Watkins commented that this gift would affect hundreds and even thousands of students for years to come.

Chair Zimmerman then called for a vote and the motion receive unanimous approval from the Board.

Mr. Greenbaum then made comments and thanked the Board and all previous Boards for their support of President Genshaft and for himself for the last 19 years. USF has been their life and they are both immensely proud of that. President Genshaft remarked that honors students has always been a passion of hers, both personally and professionally, particularly as USF where the Honors College encompasses all disciplines and cuts across every swath of the university; she thanked Honors College Dean Charles Adams for all of his leadership, especially in the recent gaining of a Phi Beta Kappa chapter. President Genshaft closed by thanking everyone for the privilege and honor of serving USF and to be able to give back.

Chair Zimmerman thanked President Genshaft and Mr. Greenbaum, as well as the Board for their unified vision that has allowed USF to grow as quickly and strongly as it has. He thanked everyone for being present and adjourned the call at 9:34 AM.
University of South Florida  
Board of Trustees Conference Call  
Thursday, May 30, 2019  
Unofficial Minutes

Chair Jordan Zimmerman called to order the conference call of the University of South Florida Board of Trustees at 11:00 AM. Chair Zimmerman thanked everyone for joining the last minute call of the Board and informed the trustees that prior to Brian Lamb’s appointment to the Board of Governors he had asked the university staff to look into renaming USF Maple Drive to USF Genshaft Drive so that there would be a lasting tribute to President Judy Genshaft.

Chair Zimmerman told the Board he wanted to get their approval today since the approval process had been finalized with the city so that if the Board approves it can be announced at President Genshaft’s farewell gala on Saturday. Due to President Genshaft’s attendance at her final American Athletic Conference meeting, Chair Zimmerman called on Chief of Staff Dr. Cindy Visot to call roll.

**Dr. Visot called roll with the following trustees present:**

Trustee Michael Carrere (via phone)  
Trustee Britney Deas (via phone, joined meeting after roll)  
Trustee Stephanie Goforth (via phone)  
Trustee Oscar Horton (via phone)  
Trustee Deanna Michael (via phone)  
Trustee Harold Mullis (via phone)  
Trustee Leslie Muma – not in attendance  
Trustee John Ramil (via phone)  
Trustee Byron Shinn – not in attendance  
Trustee Charles Tokarz – not in attendance  
Trustee Nancy Watkins (via phone)  
Trustee Jordan Zimmerman (via phone)

Chair Zimmerman then formally asked the Board to approve the renaming of USF Maple Drive to USF Genshaft Drive. He reminded the Board that this particular street has significance as last week it was unveiled to be the site of the future home of the Judy Genshaft Honors College; he then asked for a motion. Trustee Nancy Watkins provided a motion, with a second from Trustee Hal Mullis and it was approved unanimously by the Board.

Chair Zimmerman thanked the Board for their approval and adjourned the call at 11:04 AM.
USF Board of Trustees
June 6, 2019

Issue: Amendments to the Bylaws of Direct Support Organizations

Proposed action: Recommend to the USF Board of Trustees for approval the attached amendments to bylaws of the following Direct Support Organizations:

- Institute of Applied Engineering
- USF Research Foundation
- USF Property Corporation
- USF Health Professions Conferencing Corporation
- USF Financing Corporation

Executive Summary:

In accordance with USF System Regulation 13.002, the USF Board of Trustees must approve all amendments to the bylaws of the Direct Support Organizations. This agenda item is to approve amendments to the bylaws of the following Direct Support Organizations:

- Institute of Applied Engineering
- USF Research Foundation
- USF Property Corporation
- USF Health Professions Conferencing Corporation
- USF Financing Corporation

Florida Statute Section 1004.28 and USF System Regulation 13.002 require the bylaws of each Direct Support Organization to provide for the following:

1. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.
2. One (1) Director shall be either the University’s President or his or her designee in accordance with Section 1004.28 Florida Statutes. If the DSO has an executive committee the above two directors must serve on the executive committee.
3. Except as set forth in numbers 1 and 2 above, all other Directors shall be approved by the USF Board of Trustees.
Additionally, some Direct Support Organizations have used this opportunity to review and amend their bylaws to align with current best practices. Each Direct Support Organization has or will be presenting the amendments to their bylaws to their own board of directors for approval prior to the USF Board of Trustees’ meeting.

For your review, we have included:

1. Florida Statute §1004.28
2. USF System Regulation 13.002
3. Redlined or clean copies of the proposed bylaws of the Direct Support Organizations

---

**Strategic Goal(s) Item Support:** USF System Strategic Goal No 4: Sound financial management to establish a strong and sustainable economic base in support of USF’s continued academic advancement.

**Committee Review Date:**

**Supporting Documentation Online (Please Underline):** Yes  No

**USF System or Institution Specific:** USF System wide

**Prepared by:** Hilary Black, Senior Associate General Counsel
BYLAWS
OF
UNIVERSITY OF SOUTH FLORIDA
INSTITUTE OF APPLIED ENGINEERING, INCORPORATED
(a Florida Corporation Not For Profit and a University Direct Support Organization
of the University of South Florida)

ARTICLE I
Name and Address

The name of this corporation is University of South Florida Institute of Applied Engineering, Incorporated (the “Corporation”). The principal office and mailing address of the Corporation shall be University of South Florida College of Engineering, 4202 East Fowler Avenue, Tampa, Hillsborough County, Florida 33620.

ARTICLE II
Purposes and Powers

SECTION 1. Purposes and Powers.

The Corporation is organized as (i) a corporation not for profit under Chapter 617, Florida Statutes, and (ii) a university direct-support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulations 1.001(8)(b) and 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. The Corporation is organized and shall be operated exclusively for charitable, scientific and educational purposes and not for pecuniary profit, and exclusively
for the support and benefit of the University of South Florida (the “University” or “USF”) including without limitation the USF College of Engineering (“COE”). The Corporation shall possess all of the powers and authority as are now or may hereafter be granted to corporations not for profit and university direct-support organizations under the laws of the State of Florida. Pursuant to the Corporation’s operations and activities exclusively for the support and benefit of the University, the specific purposes for which the Corporation is organized shall include but not be limited to the following:

A. The Corporation is organized and operated to provide applied engineering solutions to the United States Federal government as well as other State, County, and Municipal governments and industry. A distinguishing feature of the Corporation, compared to other USF direct support organizations, is that it will predominantly provide these solutions through contracts subject to Federal Acquisition Regulation Sub-Part 31.2, Contracts with Commercial Organizations. Further, these solutions, which include both products and services, will come from, but not be limited to, the fields of Electrical, Mechanical, Aerospace, Chemical, Material Science, Computer Science, Civil & Environmental, Industrial & Management Systems, and Bio-Medical Engineering. Through this, the Corporation will enhance scientific research and educational opportunities for the University and community while attracting new technology-focused industries to the local geographic area. As such, the Corporation will further promote, stimulate, develop and advance the business prosperity and economic welfare and diversity of the State of Florida (the "State") and its residents.

SECTION 2. Limitations on Purposes and Powers.

A. All the assets and earnings of the Corporation shall be used exclusively for the exempt purposes hereinabove set forth, including the payment of expenses incidental thereto. No part of the net earnings of the Corporation shall inure to
the benefit of any member, director, or officer of the Corporation, or any other private individual, and no member, director, or officer of the Corporation or any private individual shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

B. No substantial part of the activities of the Corporation shall be the carrying on of a program of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in, or intervene in (including the publication or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office.

C. The Corporation shall not have the power to convey, lease, pledge, or otherwise encumber assets owned by the State of Florida or the University. The Corporation shall have sole responsibility for the acts, debts, liabilities, and obligations of the Corporation in accordance with Florida law.

D. The Corporation does not have the power to issue stock or pay dividends, and the private property of the members, directors, and officers shall not be liable for the debts of the Corporation.

E. The Corporation shall not have the power to conduct any activities not permitted by applicable laws including without limitation the Internal Revenue Code and pertinent Treasury Regulations (or corresponding provisions of any subsequent revenue laws) (hereinafter the “Code”).

F. Persons employed by the Corporation shall not be considered employees of the University or State of Florida by virtue of such employment.

G. The University’s President shall retain the ability, powers, and duties to: monitor and control the use of University resources and the University name by the Corporation; assure that the Corporation’s activities are consistent with and supportive of the mission of the University; monitor compliance of the
Corporation with federal and state laws and applicable rules, regulations and policies; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Corporation’s assets, consistent with applicable policies; approve salaries, benefits, and other compensation paid to employees of the Corporation, consistent with applicable policies; and otherwise supervise the Corporation as provided by Florida Board of Governors Regulations 9.011, University of South Florida Regulations 13.002, and provisions of any subsequent laws, regulations, and University policies and internal management memoranda.

SECTION 3. Special Duties as a University Direct Support Corporation.

The Corporation shall comply with all requirements and perform all duties which are necessary to maintain approval and certification of the Corporation as a university direct support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulation 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. Without limiting the foregoing:

A. The Corporation shall comply with all conditions established by the Florida Board of Governors and the USF Board of Trustees in order to be approved and certified and to use property, facilities, or personal services at the University.

B. The Corporation shall comply with all such additional conditions, controls and requirements as the Florida Board of Governors and the USF Board of Trustees deems appropriate to provide for budget and audit review and oversight.

C. The Corporation’s Executive Director shall report to the University’s President (or designee) in compliance with Florida Board of Governors Regulation 9.011(2).

D. The Corporation shall prepare an operating budget at least annually which, upon approval by the Corporation’s Board of Directors, shall be submitted for approval by the USF Board of Trustees or designee. Significant changes in planned expenditures in the approved budget must be reported by the Corporation to the USF Board of Trustees or designee as soon as practicable.
but no later than the deadline established by the USF Board of Trustees. The Corporation may provide any salary supplements and other compensation or benefits for University faculty and staff employees only as set forth in the Corporation’s budget and subject to approval by the University’s President.

E. The Corporation shall provide for an annual audit conducted pursuant to the University’s regulations or policies. The annual audit report shall be submitted by the Corporation to the USF Board of Trustees or designee, the Florida Board of Governors, and the Florida Auditor General for review. The USF Board of Trustees or designee, the Florida Board of Governors, the Florida Auditor General, and the Florida Office of Program and Policy Analysis and Governmental Accountability may require and receive any records relative to the operation of the Corporation from the Corporation or its independent auditors.

F. The Corporation shall submit its federal Internal Revenue Service application for Recognition of Exemption form (Form 1023) and its federal Internal Revenue Service Return of Organization Exempt for Income Tax form (Form 990) to the USF Board of Trustees or designee at the times required by the applicable regulation or policy of the USF Board of Trustees.

G. In the event of the Corporation’s decertification by the USF Board of Trustees, the Corporation shall provide an accounting of its assets and liabilities to the USF Board of Trustees or designee, and take such reasonable action as is necessary to secure the return of all University property and facilities as requested by the University.

ARTICLE III

Membership

The sole member of the Corporation shall be the USF Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University (the “Member.”).
The Member of the Corporation shall have no voting rights as member of the Corporation.

ARTICLE IV

Board of Directors

SECTION 1. Powers and Duties

A. The Board of Directors (the “Board”) shall be the governing body of the Corporation exercising supervisory control over the operation, maintenance, and governance of the Corporation in accordance with applicable laws and regulations.

B. The Board shall have the powers, duties and responsibilities vested in the board of directors of a Florida not for profit and university direct support organization under applicable Florida laws and regulations.

SECTION 2. Qualification and Compensation of the Board of Directors

The property, affairs, business, funds and operations of the Corporation shall be managed, supervised and controlled by the Board, subject to applicable law and regulations, the limitations contained in the Corporation’s Articles of Incorporation and Bylaws, and the powers and duties reserved to the University’s President and the USF Board of Trustees. The members of the Board shall serve in such capacity without compensation. The Board shall carry out the purposes of the Corporation in compliance with the Articles of Incorporation and these Bylaws. The Board shall include the incumbent holders of the following named offices and persons from the following named classes (note the maximum number of members on the Board of Directors is nine (9)):

A. The University’s Dean of the College of Engineering (the “USF Dean, College of Engineering”).

B.A. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section
C.B. One (1) Director shall be a person who is nominated to the Board by the University’s President as the President’s representative. (provided, the University’s President may elect to appoint the USF Dean, College of Engineering to serve as the President's representative for this purpose).

D.C. A minimum of four (4), up to a maximum of six (7), additional persons, to include non-USF employees, who are each nominated to the Board by the USF Dean, College of Engineering or his/her designee.

While the University President and USF Dean, College of Engineering, shall nominate members to the Board of Directors, all Board members shall be approved and formally appointed by the USF Board of Trustees.

Except as may be otherwise provided in the Articles and these Bylaws, Directors shall serve a term of three (3) years and may be reappointed. Directors shall be removed in accordance with the procedure provided in the Bylaws; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees.

SECTION 3. Removal and Resignation of Directors.

Directors may be removed by the University’s President in his/her sole discretion; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees. Any Director may resign at any time by giving written notice to the Board. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Board.

SECTION 4. Conflict of Interest

The Board shall adopt and keep in full force and effect a substantial conflict of interest policy for its Directors and principle officers in accordance with the rules and regulations of
the Internal Revenue Service applicable to tax exempt organizations.

ARTICLE V
Officers

SECTION 1. Officers of the Board of Directors

The officers of the Board shall consist of a Chairperson, a Vice-Chairperson and such other officers as the Board may provide by resolution. All of said officers shall be elected by the Board from the membership of the Board. The same person may not hold more than one office on the Board.

Chairperson: The Chairperson shall:

A. Exercise overall supervision of Board affairs and preside at meetings of the Board.
B. Provide leadership to the Board and its committees in formulating, developing and evaluating the Corporation's policies and goals;
C. Appoint special committees from time to time for the sole purpose of advising the Chairperson on such matters as may be deemed necessary and appropriate at the time;
D. Develop, coordinate, and supervise all operating policies and procedures of and for the Board; and
E. Submit all information and reports to the University’s President as required by Florida Board of Governors Regulation 9.011 and University of South Florida Regulation 13.002.
F. Perform all the duties incident to his/her office and such other duties as may be designated by the University’s President or the Board.

Vice-Chairperson: The Vice-Chairperson shall:

A. In the absence of the Chairperson, preside at meetings of the Board. The Vice Chairperson shall vote in the decisions and actions of the Board.
SECTION 2. **Officers of the Corporation**

The officers of the Corporation shall consist of a President/Chief Executive Officer (CEO), Secretary, Treasurer and such other positions as from time to time are elected or appointed by the Board. The Secretary and Treasurer positions may be held by the same person. The individual who serves as the USF Dean, College of Engineering or his/her designee shall be the Corporation President/CEO. All other officers shall hold office until the next annual meeting of the Board or until their successors are elected or appointed by the Board.

**President/CEO:** The President/CEO is the direct representative of the Board in the management of the Corporation. The President/CEO’s duties shall include, but not be limited to, the following:

A. Direct and oversee performance of the Corporation.
B. Sign written instruments of the Corporation except as the Board shall provide otherwise;
C. Control the budget and funds of the Corporation;
D. Prepare annual operating and capital budgets; develop performance reports comparing actual operations with approved budgets; and submit reports on the financial condition of the Corporation to the Board at its regular meetings;
E. Create and supervise the Corporation’s administrative management structure and staff; and
F. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**Secretary:** The Board shall appoint an individual to serve as the Secretary. The Secretary shall:

A. Keep accurate records of attendance, votes, and minutes of all proceedings of
the Board.
B. Ensure that a quorum of Directors is present to conduct Board meetings;
C. Have charge of and affix the corporate seal to instruments as appropriate.
D. Have charge of all official records of the Corporation that shall be at all reasonable times open to the inspection of any Director; and
E. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**Treasurer** The Board shall appoint an individual to serve as the Treasurer. The Treasurer shall:

A. Support the President/CEO in controlling the budget and funds of the Corporation;
B. Support the President/CEO in preparing annual operating and capital budgets; developing performance reports comparing actual operations with approved budgets; and submitting reports on the financial condition of the Corporation to the Board at its regular meetings;
C. Receive and keep the funds of the Corporation and pay out the same only in accordance with the guidelines established by the Board;
D. Deposit all monies, checks and other credits to the account of the Corporation in such bank or banks or other depositories as the Board may designate;
E. Review all receipts and vouchers for payment made to and all vouchers and checks made by the Corporation and shall regularly maintain a full and accurate account of all funds received and paid out by the Corporation;
F. Render to the Board an account and statement of the Treasurer's actions at the annual meeting of the Board and at such other times as the Board may determine;
G. At all reasonable times exhibit the Treasurer's books and accounts to any Director of the Board;
H. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**SECTION 3. Resignation and Removal**
Any officer of the Corporation may resign at any time by giving written notice to the Chairperson or the Secretary. Any such resignation shall take effect at the time specified in the notice, or, if no time is specified therein, upon its acceptance by the Chairperson or the Board. The Chairperson or the Board may, with or without cause, remove from office any officer or agent of the Corporation except the Corporation President/CEO. The University President may, with or without cause, remove from office the Corporation President/CEO. The Chairperson or the Board shall have authority to make appointments to fill vacancies in officer positions, subject to the provisions of these Bylaws.

ARTICLE VI
Meetings of the Board of Directors and its Committees

SECTION 1. Regular Meetings.

The Board shall hold regular meetings as called by the Chairperson. One regular meeting of the Board, to be held in October of each year, shall be designated the annual meeting of the Board for the purpose of electing officers as applicable, appointing new committee members as applicable, and the transaction of other business. The Chairperson and the chairpersons of other committees shall fix the time and place of regular meetings of such Board or committee, respectively.

SECTION 2. Special Meetings.

The Chairperson and the chairpersons of other committees shall have authority to call special meetings of such Board or committee respectively whenever he/she deems necessary or desirable. In addition, the Chairperson and the chairpersons of other committees shall call a special meeting whenever requested in writing to do so by a majority of the members of the Board or other committee.

SECTION 3. Participation in Meetings by Telephone.

Members of the Board and other committees may participate in meetings of the Board
and other committees by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

SECTION 4. Notice, Agendas and Minutes.

A. Unless waived as provided by law, written notice of the place, date, time, and purpose of regular Board and committee meetings shall be given to each member thereof by personal delivery, mail, facsimile, telegram or email at least one (1) day prior to said meetings, and similar notice of any special meetings shall be given to all Board or committee members as soon as practicable prior to said meetings. Either a regular or special meeting may be held without notice if all Board or committee members waive, in writing, the right to receive notice. Notice of a meeting need not be given to any member who signs a waiver of notice either before or after the meeting. Attendance of any Board or committee member at any meeting shall be deemed a waiver of notice of such meeting and a waiver of any and all objections to the place of the meeting, the time of the meeting, or the manner in which it has been called or convened, except when a member states at the beginning of the meeting or promptly upon arrival at the meeting, any objection to the transaction of affairs because the meeting is not lawfully called or convened.

B. The Chairperson of the Board and the chairpersons of other committees may elect to provide notices of Board and committee meetings to individuals other than members of such Board or committee, respectively. The Chairperson shall provide notices of all Board meetings to the USF Chief Financial Officer who shall have the right to attend all meetings of the Board.

C. A written agenda of the matters to be considered at a Board or committee meeting shall be delivered to members thereof prior to such meeting, provided, however, that Board and committee proceedings shall not be limited to matters set forth in such agenda.

D. Written minutes of the proceedings of the Board and committees shall be maintained and all actions taken at Board and committee meetings shall be properly
recorded in the minutes. Minutes shall, where reasonably possible, be delivered to
the members of the Board or committee in advance of its next scheduled meeting.
SECTION 5. Quorum and Voting.

A. The presence of a majority of the members of the Board shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of the Board.

B. The presence of a majority of the members of any Board committee shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of committees of such Board committee.

C. In the absence of a quorum, a majority of members present at the meeting of the Board or committee may adjourn the meeting until a quorum is present for the transaction of business.

D. The vote of a majority of the members of the Board or any Board committee present at a meeting of the Board or committee shall constitute the action of the Board or Committee except as otherwise provided by these Bylaws.


The most recent edition of “Roberts Rules of Order” shall be followed in conducting the meetings of the Board and committees unless otherwise provided by resolution of the Board.

ARTICLE VII

Committees of the Board of Directors

SECTION 1. Appointment to and Removal from, Composition, and Term of Committees.

A. The chairpersons and members of all standing and special committees of the Board shall be appointed as provided by these Bylaws. A committee
chairperson or member may be removed from a committee only by the Board.

B. All committees of the Board shall consist of not less than three (3) members, at least one (1) of whom shall be a Director. Individuals other than Directors shall be eligible to serve on committees. However, the chairperson of each committee shall be a Director.

C. The chairpersons and members of standing committees shall continue in these capacities until their successors have been appointed. Special committees shall be discharged by the Board upon completion of the task for which they are established.

SECTION 2. Other Standing and Special Committees.

A. Composition.

The Board may by resolution appoint one or more other standing or special committees which shall perform specific functions and tasks as provided in the resolution, except that a delegation of power to such committees shall not include any of the following powers:

(i) approve or recommend to members actions or proposals required by Chapter 617, Florida Statutes, to be approved by members

(ii) fill vacancies on the Board or any committee thereof;

(iii) adopt, amend, or repeal the Articles of Incorporation or these Bylaws of the Corporation;

(iv) sell, lease, exchange, or otherwise dispose of all or substantially all of the property and assets of the Corporation;

(v) adopt a plan of voluntary dissolution of the Corporation;

(vi) amend or repeal any resolution approved by the Board; or
(vii) exercise any other powers specifically provided in the Bylaws as being reserved for the Board.

In addition, if such a committee includes a member who is not a Director, the committee shall not be delegated any powers of the Board. The Board shall have the authority to appoint a special committee from time to time for the sole purpose of advising the Board on such matters as may be deemed necessary and appropriate at the time.

B. Meetings, Quorums and Minutes.

Meetings of standing and special committees may be called by the chairperson of the committee or by the Board, or by the Chairperson, and notice of any committee meeting shall be given in the manner provided in these Bylaws for notices of special meetings of the Board. Each committee shall keep regular minutes of its proceedings. The Chairperson, and his/her designees, shall have the right to attend any meeting of any special and standing committee.

ARTICLE VIII
Adoption and Amendments

The Board shall adopt these Bylaws and may from time to time modify, alter, amend or repeal the Bylaws by an affirmative vote of two-thirds (2/3) of the members of the Board present and voting at any duly held regular or special meeting of the Board, or by all Directors signing a written statement manifesting their intention that the Bylaws be adopted, amended or repealed; provided, with respect to such meetings, notice thereof, which shall include the text of the proposed change to the Bylaws, shall be furnished in writing to each member of the Board at least seven (7) days prior to the meeting at which the change to the Bylaws is to be voted upon; provided further, the adoption, amendment or repeal of the Bylaws shall not be
effective without the written concurrence of the University’s President, the USF Board of Trustees, and such other approvals as may be required by law or regulation.

ARTICLE IX

Indemnification

The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Article shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Article shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE X

Dedication of Assets and Dissolution

The Corporation dedicates all assets which it may acquire to the charitable purposes as set forth in Article I hereof. In the event that the Corporation shall dissolve or otherwise terminate its corporate existence, subject to the provision of Chapter 617, Florida Statutes, the Corporation shall distribute all its existing assets as provided in the Articles of Incorporation.

ARTICLE XI

Access to Corporate Records
Public access to all records of the Corporation shall be governed by Section 1004.28, Florida Statutes and the Corporation’s policy on disclosure of records.
BYLAWS
OF
UNIVERSITY OF SOUTH FLORIDA
INSTITUTE OF APPLIED ENGINEERING, INCORPORATED
(a Florida Corporation Not For Profit and a University Direct Support Organization
of the University of South Florida)

ARTICLE I
Name and Address

The name of this corporation is University of South Florida Institute of Applied Engineering, Incorporated (the “Corporation”). The principal office and mailing address of the Corporation shall be University of South Florida College of Engineering, 4202 East Fowler Avenue, Tampa, Hillsborough County, Florida 33620.

ARTICLE II
Purposes and Powers

SECTION 1. Purposes and Powers.

The Corporation is organized as (i) a corporation not for profit under Chapter 617, Florida Statutes, and (ii) a university direct-support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulations 1.001(8)(b) and 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. The Corporation is organized and shall be operated exclusively for charitable, scientific and educational purposes and not for pecuniary profit, and exclusively
for the support and benefit of the University of South Florida (the “University” or “USF”) including without limitation the USF College of Engineering (“COE”). The Corporation shall possess all of the powers and authority as are now or may hereafter be granted to corporations not for profit and university direct-support organizations under the laws of the State of Florida. Pursuant to the Corporation’s operations and activities exclusively for the support and benefit of the University, the specific purposes for which the Corporation is organized shall include but not be limited to the following:

A. The Corporation is organized and operated to provide applied engineering solutions to the United States Federal government as well as other State, County, and Municipal governments and industry. A distinguishing feature of the Corporation, compared to other USF direct support organizations, is that it will predominantly provide these solutions through contracts subject to Federal Acquisition Regulation Sub-Part 31.2, Contracts with Commercial Organizations. Further, these solutions, which include both products and services, will come from, but not be limited to, the fields of Electrical, Mechanical, Aerospace, Chemical, Material Science, Computer Science, Civil & Environmental, Industrial & Management Systems, and Bio-Medical Engineering. Through this, the Corporation will enhance scientific research and educational opportunities for the University and community while attracting new technology-focused industries to the local geographic area. As such, the Corporation will further promote, stimulate, develop and advance the business prosperity and economic welfare and diversity of the State of Florida (the "State") and its residents.

SECTION 2. Limitations on Purposes and Powers.

A. All the assets and earnings of the Corporation shall be used exclusively for the exempt purposes hereinabove set forth, including the payment of expenses incidental thereto. No part of the net earnings of the Corporation shall inure to
the benefit of any member, director, or officer of the Corporation, or any other private individual, and no member, director, or officer of the Corporation or any private individual shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

B. No substantial part of the activities of the Corporation shall be the carrying on of a program of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in, or intervene in (including the publication or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office.

C. The Corporation shall not have the power to convey, lease, pledge, or otherwise encumber assets owned by the State of Florida or the University. The Corporation shall have sole responsibility for the acts, debts, liabilities, and obligations of the Corporation in accordance with Florida law.

D. The Corporation does not have the power to issue stock or pay dividends, and the private property of the members, directors, and officers shall not be liable for the debts of the Corporation.

E. The Corporation shall not have the power to conduct any activities not permitted by applicable laws including without limitation the Internal Revenue Code and pertinent Treasury Regulations (or corresponding provisions of any subsequent revenue laws) (hereinafter the “Code”).

F. Persons employed by the Corporation shall not be considered employees of the University or State of Florida by virtue of such employment.

G. The University’s President shall retain the ability, powers, and duties to: monitor and control the use of University resources and the University name by the Corporation; assure that the Corporation’s activities are consistent with and supportive of the mission of the University; monitor compliance of the
Corporation with federal and state laws and applicable rules, regulations and policies; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Corporation’s assets, consistent with applicable policies; approve salaries, benefits, and other compensation paid to employees of the Corporation, consistent with applicable policies; and otherwise supervise the Corporation as provided by Florida Board of Governors Regulations 9.011, University of South Florida Regulations 13.002, and provisions of any subsequent laws, regulations, and University policies and internal management memoranda.

SECTION 3. Special Duties as a University Direct Support Corporation.

The Corporation shall comply with all requirements and perform all duties which are necessary to maintain approval and certification of the Corporation as a university direct support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulation 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. Without limiting the foregoing:

A. The Corporation shall comply with all conditions established by the Florida Board of Governors and the USF Board of Trustees in order to be approved and certified and to use property, facilities, or personal services at the University.

B. The Corporation shall comply with all such additional conditions, controls and requirements as the Florida Board of Governors and the USF Board of Trustees deems appropriate to provide for budget and audit review and oversight.

C. The Corporation’s Executive Director shall report to the University’s President (or designee) in compliance with Florida Board of Governors Regulation 9.011(2).

D. The Corporation shall prepare an operating budget at least annually which, upon approval by the Corporation’s Board of Directors, shall be submitted for approval by the USF Board of Trustees or designee. Significant changes in planned expenditures in the approved budget must be reported by the Corporation to the USF Board of Trustees or designee as soon as practicable.
but no later than the deadline established by the USF Board of Trustees. The Corporation may provide any salary supplements and other compensation or benefits for University faculty and staff employees only as set forth in the Corporation’s budget and subject to approval by the University’s President.

E.  The Corporation shall provide for an annual audit conducted pursuant to the University’s regulations or policies. The annual audit report shall be submitted by the Corporation to the USF Board of Trustees or designee, the Florida Board of Governors, and the Florida Auditor General for review. The USF Board of Trustees or designee, the Florida Board of Governors, the Florida Auditor General, and the Florida Office of Program and Policy Analysis and Governmental Accountability may require and receive any records relative to the operation of the Corporation from the Corporation or its independent auditors.

F.  The Corporation shall submit its federal Internal Revenue Service application for Recognition of Exemption form (Form 1023) and its federal Internal Revenue Service Return of Organization Exempt for Income Tax form (Form 990) to the USF Board of Trustees or designee at the times required by the applicable regulation or policy of the USF Board of Trustees.

G.  In the event of the Corporation’s decertification by the USF Board of Trustees, the Corporation shall provide an accounting of its assets and liabilities to the USF Board of Trustees or designee, and take such reasonable action as is necessary to secure the return of all University property and facilities as requested by the University.

ARTICLE III

Membership

The sole member of the Corporation shall be the USF Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University (the “Member.”).
The Member of the Corporation shall have no voting rights as member of the Corporation.

ARTICLE IV
Board of Directors

SECTION 1. Powers and Duties

A. The Board of Directors (the “Board”) shall be the governing body of the Corporation exercising supervisory control over the operation, maintenance, and governance of the Corporation in accordance with applicable laws and regulations.

B. The Board shall have the powers, duties and responsibilities vested in the board of directors of a Florida not for profit and university direct support organization under applicable Florida laws and regulations.

SECTION 2. Qualification and Compensation of the Board of Directors

The property, affairs, business, funds and operations of the Corporation shall be managed, supervised and controlled by the Board, subject to applicable law and regulations, the limitations contained in the Corporation’s Articles of Incorporation and Bylaws, and the powers and duties reserved to the University’s President and the USF Board of Trustees. The members of the Board shall serve in such capacity without compensation. The Board shall carry out the purposes of the Corporation in compliance with the Articles of Incorporation and these Bylaws. The Board shall include the incumbent holders of the following named offices and persons from the following named classes

A. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

B. One (1) Director shall be a person who is nominated to the Board by the University’s President as the President's representative.
C. A minimum of four (4), to include non-USF employees, who are each nominated to the Board by the USF Dean, College of Engineering or his/her designee.

While the University President and USF Dean, College of Engineering, shall nominate members to the Board of Directors, all Board members shall be approved and formally appointed by the USF Board of Trustees.

Except as may be otherwise provided in the Articles and these Bylaws, Directors shall serve a term of three (3) years and may be reappointed. Directors shall be removed in accordance with the procedure provided in the Bylaws; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees.

SECTION 3. Removal and Resignation of Directors.

Directors may be removed by the University’s President in his/her sole discretion; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees. Any Director may resign at any time by giving written notice to the Board. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Board.

SECTION 4. Conflict of Interest

The Board shall adopt and keep in full force and effect a substantial conflict of interest policy for its Directors and principle officers in accordance with the rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.
SECTION 1. **Officers of the Board of Directors**

The officers of the Board shall consist of a Chairperson, a Vice-Chairperson and such other officers as the Board may provide by resolution. All of said officers shall be elected by the Board from the membership of the Board. The same person may not hold more than one office on the Board.

**Chairperson:** The Chairperson shall:

A. Exercise overall supervision of Board affairs and preside at meetings of the Board.

B. Provide leadership to the Board and its committees in formulating, developing and evaluating the Corporation's policies and goals;

C. Appoint special committees from time to time for the sole purpose of advising the Chairperson on such matters as may be deemed necessary and appropriate at the time;

D. Develop, coordinate, and supervise all operating policies and procedures of and for the Board; and

E. Submit all information and reports to the University’s President as required by Florida Board of Governors Regulation 9.011 and University of South Florida Regulation 13.002.

F. Perform all the duties incident to his/her office and such other duties as may be designated by the University’s President or the Board.

**Vice-Chairperson:** The Vice-Chairperson shall:

A. In the absence of the Chairperson, preside at meetings of the Board. The Vice Chairperson shall vote in the decisions and actions of the Board.

B. Perform such duties as may be designated by the Chairperson or the Board.

SECTION 2. **Officers of the Corporation**
The officers of the Corporation shall consist of a President/Chief Executive Officer (CEO), Secretary, Treasurer and such other positions as from time to time are elected or appointed by the Board. The Secretary and Treasurer positions may be held by the same person. The individual who serves as the USF Dean, College of Engineering or his/her designee shall be the Corporation President/CEO. All other officers shall hold office until the next annual meeting of the Board or until their successors are elected or appointed by the Board.

**President/CEO:** The President/CEO is the direct representative of the Board in the management of the Corporation. The President/CEO’s duties shall include, but not be limited to, the following:

A. Direct and oversee performance of the Corporation.
B. Sign written instruments of the Corporation except as the Board shall provide otherwise;
C. Control the budget and funds of the Corporation;
D. Prepare annual operating and capital budgets; develop performance reports comparing actual operations with approved budgets; and submit reports on the financial condition of the Corporation to the Board at its regular meetings;
E. Create and supervise the Corporation’s administrative management structure and staff; and
F. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**Secretary:** The Board shall appoint an individual to serve as the Secretary. The Secretary shall:

A. Keep accurate records of attendance, votes, and minutes of all proceedings of the Board.
B. Ensure that a quorum of Directors is present to conduct Board meetings;
C. Have charge of and affix the corporate seal to instruments as appropriate.
D. Have charge of all official records of the Corporation that shall be at all reasonable times open to the inspection of any Director; and
E. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**Treasurer** The Board shall appoint an individual to serve as the Treasurer. The Treasurer shall:

A. Support the President/CEO in controlling the budget and funds of the Corporation;

B. Support the President/CEO in preparing annual operating and capital budgets; developing performance reports comparing actual operations with approved budgets; and submitting reports on the financial condition of the Corporation to the Board at its regular meetings;

C. Receive and keep the funds of the Corporation and pay out the same only in accordance with the guidelines established by the Board;

D. Deposit all monies, checks and other credits to the account of the Corporation in such bank or banks or other depositories as the Board may designate;

E. Review all receipts and vouchers for payment made to and all vouchers and checks made by the Corporation and shall regularly maintain a full and accurate account of all funds received and paid out by the Corporation;

F. Render to the Board an account and statement of the Treasurer's actions at the annual meeting of the Board and at such other times as the Board may determine;

G. At all reasonable times exhibit the Treasurer's books and accounts to any Director of the Board;

H. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

**SECTION 3. Resignation and Removal**

Any officer of the Corporation may resign at any time by giving written notice to the Chairperson or the Secretary. Any such resignation shall take effect at the time specified in the notice, or, if no time is specified therein, upon its acceptance by the Chairperson or the Board. The Chairperson or the Board may, with or without cause, remove from office any officer or
ARTICLE VI

Meetings of the Board of Directors and its Committees

SECTION 1. Regular Meetings.

The Board shall hold regular meetings as called by the Chairperson. One regular meeting of the Board, to be held in October of each year, shall be designated the annual meeting of the Board for the purpose of electing officers as applicable, appointing new committee members as applicable, and the transaction of other business. The Chairperson and the chairpersons of other committees shall fix the time and place of regular meetings of such Board or committee, respectively.

SECTION 2. Special Meetings.

The Chairperson and the chairpersons of other committees shall have authority to call special meetings of such Board or committee respectively whenever he/she deems necessary or desirable. In addition, the Chairperson and the chairpersons of other committees shall call a special meeting whenever requested in writing to do so by a majority of the members of the Board or other committee.

SECTION 3. Participation in Meetings by Telephone.

Members of the Board and other committees may participate in meetings of the Board and other committees by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

SECTION 4. Notice, Agendas and Minutes.
A. Unless waived as provided by law, written notice of the place, date, time, and purpose of regular Board and committee meetings shall be given to each member thereof by personal delivery, mail, facsimile, telegram or email at least one (1) day prior to said meetings, and similar notice of any special meetings shall be given to all Board or committee members as soon as practicable prior to said meetings. Either a regular or special meeting may be held without notice if all Board or committee members waive, in writing, the right to receive notice. Notice of a meeting need not be given to any member who signs a waiver of notice either before or after the meeting. Attendance of any Board or committee member at any meeting shall be deemed a waiver of notice of such meeting and a waiver of any and all objections to the place of the meeting, the time of the meeting, or the manner in which it has been called or convened, except when a member states at the beginning of the meeting or promptly upon arrival at the meeting, any objection to the transaction of affairs because the meeting is not lawfully called or convened.

B. The Chairperson of the Board and the chairpersons of other committees may elect to provide notices of Board and committee meetings to individuals other than members of such Board or committee, respectively. The Chairperson shall provide notices of all Board meetings to the USF Chief Financial Officer who shall have the right to attend all meetings of the Board.

C. A written agenda of the matters to be considered at a Board or committee meeting shall be delivered to members thereof prior to such meeting, provided, however, that Board and committee proceedings shall not be limited to matters set forth in such agenda.

D. Written minutes of the proceedings of the Board and committees shall be maintained and all actions taken at Board and committee meetings shall be properly recorded in the minutes. Minutes shall, where reasonably possible, be delivered to the members of the Board or committee in advance of its next scheduled meeting.
SECTION 5. **Quorum and Voting.**

A. The presence of a majority of the members of the Board shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of the Board.

B. The presence of a majority of the members of any Board committee shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of committees of such Board committee.

C. In the absence of a quorum, a majority of members present at the meeting of the Board or committee may adjourn the meeting until a quorum is present for the transaction of business.

D. The vote of a majority of the members of the Board or any Board committee present at a meeting of the Board or committee shall constitute the action of the Board or Committee except as otherwise provided by these Bylaws.

SECTION 6. **Parliamentary Rules.**

The most recent edition of “Roberts Rules of Order” shall be followed in conducting the meetings of the Board and committees unless otherwise provided by resolution of the Board.

ARTICLE VII

**Committees of the Board of Directors**

SECTION 1. **Appointment to and Removal from, Composition, and Term of Committees.**

A. The chairpersons and members of all standing and special committees of the Board shall be appointed as provided by these Bylaws. A committee
chairperson or member may be removed from a committee only by the Board.

B. All committees of the Board shall consist of not less than three (3) members, at least one (1) of whom shall be a Director. Individuals other than Directors shall be eligible to serve on committees. However, the chairperson of each committee shall be a Director.

C. The chairpersons and members of standing committees shall continue in these capacities until their successors have been appointed. Special committees shall be discharged by the Board upon completion of the task for which they are established.

SECTION 2. **Other Standing and Special Committees.**

A. **Composition.**

The Board may by resolution appoint one or more other standing or special committees which shall perform specific functions and tasks as provided in the resolution, except that a delegation of power to such committees shall not include any of the following powers:

(i) approve or recommend to members actions or proposals required by Chapter 617, Florida Statutes, to be approved by members

(ii) fill vacancies on the Board or any committee thereof;

(iii) adopt, amend, or repeal the Articles of Incorporation or these Bylaws of the Corporation;

(iv) sell, lease, exchange, or otherwise dispose of all or substantially all of the property and assets of the Corporation;

(v) adopt a plan of voluntary dissolution of the Corporation;

(vi) amend or repeal any resolution approved by the Board; or
(vii) exercise any other powers specifically provided in the Bylaws as being reserved for the Board.

In addition, if such a committee includes a member who is not a Director, the committee shall not be delegated any powers of the Board. The Board shall have the authority to appoint a special committee from time to time for the sole purpose of advising the Board on such matters as may be deemed necessary and appropriate at the time.

B. Meetings, Quorums and Minutes.

Meetings of standing and special committees may be called by the chairperson of the committee or by the Board, or by the Chairperson, and notice of any committee meeting shall be given in the manner provided in these Bylaws for notices of special meetings of the Board. Each committee shall keep regular minutes of its proceedings. The Chairperson, and his/her designees, shall have the right to attend any meeting of any special and standing committee.

ARTICLE VIII

Adoption and Amendments

The Board shall adopt these Bylaws and may from time to time modify, alter, amend or repeal the Bylaws by an affirmative vote of two-thirds (2/3) of the members of the Board present and voting at any duly held regular or special meeting of the Board, or by all Directors signing a written statement manifesting their intention that the Bylaws be adopted, amended or repealed; provided, with respect to such meetings, notice thereof, which shall include the text of the proposed change to the Bylaws, shall be furnished in writing to each member of the Board at least seven (7) days prior to the meeting at which the change to the Bylaws is to be voted upon; provided further, the adoption, amendment or repeal of the Bylaws shall not be
effective without the written concurrence of the University’s President, the USF Board of Trustees, and such other approvals as may be required by law or regulation.

ARTICLE IX

Indemnification

The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Article shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Article shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE X

Dedication of Assets and Dissolution

The Corporation dedicates all assets which it may acquire to the charitable purposes as set forth in Article II hereof. In the event that the Corporation shall dissolve or otherwise terminate its corporate existence, subject to the provision of Chapter 617, Florida Statutes, the Corporation shall distribute all its existing assets as provided in the Articles of Incorporation.

ARTICLE XI

Access to Corporate Records
Public access to all records of the Corporation shall be governed by Section 1004.28, Florida Statutes and the Corporation’s policy on disclosure of records.
AMENDED AND RESTATED
ARTICLES OF INCORPORATION OF THE
UNIVERSITY OF SOUTH FLORIDA RESEARCH FOUNDATION, INCORPORATED

University of South Florida Research Foundation, Incorporated was originally incorporated on June 28, 1989, pursuant to the Florida Not for Profit Corporation Act, and filed amended and restated articles of incorporation on October 2, 2006.

In accordance with Sections 617.1002 and 617.1007 of the Florida Not For Profit Corporation Act and pursuant to a resolution duly adopted by its Board of Directors on May 13, 2019, University of South Florida Research Foundation, Inc. hereby adopts these amended and restated articles of incorporation (Articles I, III, IV, V, VI, VII, VIII, IX and XI). The corporation’s Board of Directors by an affirmative majority vote of the members thereof approved the amendments in the manner set forth in the articles of incorporation and Florida law. There is no discrepancy between the articles of incorporation as amended and the provisions of the restated articles of incorporation other than the inclusion of the amended articles described above and the omission of matters of historical interest. There are no members entitled to vote on the adoption of these amended and restated articles of incorporation.

ARTICLE I
Name and Address

The name of this corporation is the University of South Florida Research Foundation, Incorporated (the “Corporation”). The principal office and mailing address of the Corporation is 3802 Spectrum Boulevard, Suite 100, Tampa, FL 33612.

ARTICLE II
Enabling Law

This Corporation is organized pursuant to the Florida Not for Profit Corporation Act.

ARTICLE III
Purposes

Section 1. This Corporation is organized as (i) a corporation not for profit under Chapter 617, Florida Statutes, (ii) a university direct-support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulations 1.001(8)(b) and 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. The Corporation is organized and shall be operated exclusively for charitable, scientific and educational purposes and not for pecuniary profit, and exclusively for the support and benefit of the University of South Florida (the “University” or “USF”). The purposes of this Corporation include the promotion, encouragement and enhancement of the research activities of faculty, staff and students of the University of South Florida through income from contracts, grants and other sources including, but not limited to income derived from or related to the development and commercialization of University work products. The Corporation shall provide...
means by which discoveries, inventions, processes and work products of faculty, staff and students of the University may be patented, developed, applied and utilized in order that the results of such research shall be made available to the public and that funds be made available from such discoveries, inventions, processes and work products for further research at the University of South Florida.

Section 2. All the assets and earnings of the Corporation shall be used exclusively for the exempt purposes set forth above, including the payment of expenses incidental thereto.

ARTICLE IV
Powers

Section 1. Powers. The Corporation shall have all the powers and authority as are now or may hereafter be granted to corporations not for profit and university direct-support organizations under the laws of the State of Florida.

Section 2. Limitations on Powers.
A. The Corporation shall not have the power to convey, lease, pledge, or otherwise encumber assets owned by the State of Florida or the University. The Corporation shall have sole responsibility for the acts, debts, liabilities, and obligations of the Corporation in accordance with Florida law.

B. The Corporation does not have the power to issue stock, or pay dividends, and the private property of the members, directors, and officers shall not be liable for the debts of the Corporation.

C. No substantial part of the activities of the Corporation shall be the carrying on of a program of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in, or intervene in (including the publication or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office.

D. No part of the net earnings of the Corporation shall inure to the benefit of any director, officer, or member of the Corporation, or to any other private individual. No member, director or officer of the Corporation or any private individual shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

E. The Corporation shall not have the power to conduct any activities not permitted by applicable laws including without limitation the Internal Revenue Code and pertinent Treasury regulations (or corresponding provisions of any subsequent revenue laws) (hereinafter the “Code”).

F. Persons employed by the Corporation shall not be considered employees of the University or State of Florida by virtue of such employment.

G. The University’s President shall retain the ability, powers, and duties to: monitor and control the use of University resources and the University name by the Corporation; assure that the Corporation’s activities are consistent with and supportive of the mission
of the University; monitor compliance of the Corporation with federal and state laws and applicable regulations, rules and policies; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Corporation’s assets, consistent with applicable policies; approve salaries, benefits, and other compensation paid to employees of the Corporation, consistent with applicable policies; and otherwise supervise the Corporation as provided by Florida Board of Governors Regulation 9.011, University of South Florida Regulation 13.002, and the provisions of any subsequent laws, regulations, and University policies and internal management memoranda.

ARTICLE V
Membership

The Corporation’s sole member shall be the USF Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University (the “Member”). The Member of the Corporation shall have no voting rights as member of the Corporation.

ARTICLE VI
Management

Section 1. Board of Directors
The property, affairs, business, funds and operations of the Corporation shall be managed, supervised and controlled by a Board of Directors (the “Board”), subject to applicable law and regulations, the limitations contained in the Corporation’s Articles of Incorporation and Bylaws, and the powers and duties reserved to the University’s President and the USF Board of Trustees. The members of the Board shall serve in such capacity without compensation. The Board shall carry out the purposes of the Corporation in compliance with these Articles of Incorporation and Bylaws of the Corporation. The Board shall include the incumbent holders of the following named offices and persons from the following named classes:

A. The University’s Senior Vice President for Research, Innovation & Knowledge Enterprise (the “USF Research Senior Vice President”).

B. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

C. One (1) Director shall be a person who is nominated to the Board by the University's President as the President's representative (provided, the University's President may elect to appoint the USF Research Senior Vice President to serve as the President's representative for this purpose).

D. The University’s Provost and Executive Vice President.

E. The University’s Senior Vice President for USF Health.
F. The University's Vice President, Business & Finance and Chief Financial Officer.

G. Two (2) members of the University's faculty who are nominated to the Board by the University's President.

H. A maximum of ten (10) additional persons, to include non-USF employees, who are each nominated to the Board by the USF Research Senior Vice President.

Except as may be otherwise provided in the Articles and these Bylaws, Directors shall serve a term of three (3) years and may be reappointed. Directors shall be removed in accordance with the procedure provided in the Bylaws; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees.

Section 2. Additional Committees.
The Board, by resolution adopted by the Board, may designate other committees of the Board with such membership and authority as are provided in such resolution, except that a delegation of power to such committee shall not include any of the following powers:

A. approve or recommend to members actions or proposals required by Chapter 617, Florida Statutes, to be approved by members;

B. fill vacancies on the Board or any committee thereof;

C. adopt, amend, or repeal these Articles of Incorporation or the Corporation's Bylaws; and

D. exercise any other powers specifically provided in the Bylaws as being reserved for the Board.

ARTICLE VII
Officers
Section 1. Officers
The officers of the Board shall consist of a Chairperson, a Vice-Chairperson and such other officers as the Board as may be provided for in the Bylaws. The individual who serves as the USF Research Senior Vice President shall be the Chairperson of the Board (the “Chairperson”). All of said officers, with the exception of the Chairperson, shall be elected by the Board from the membership of the Board. The same person may not hold more than one office on the Board.

The officers of this Corporation shall consist of a President/Chief Executive Officer, a Secretary, a Treasurer, and such other officers as may be provided for in the Bylaws. The Secretary and Treasurer positions may be held by the same person. The individual who serves as the USF Research Senior Vice President shall be the Corporation President/CEO.

Section 2. Qualification, Duties, Term.
The qualifications of officers, the time and manner of electing or appointing them, the duties of and the term of office, and the manner of removing officers shall be as set forth in the Bylaws.

ARTICLE VIII
Registered Office and Registered Agent

The Board of Directors designate the Corporation's Registered Office to be located at University of South Florida, 4202 East Fowler Avenue, CGS 301, Tampa, Florida 33620, and designates and appoints the General Counsel of the University of South Florida as Registered Agent of the Corporation, to accept service of process within this State, to serve in such capacity until a successor is selected and duly designated.

ARTICLE IX
Amendments to Bylaws and Articles of Incorporation

The Bylaws of the Corporation may be adopted, altered, amended or repealed by an affirmative vote of two-thirds (2/3rds) of the members of the Board present and voting at any duly held regular or special meeting of the Board, or by all directors signing a written statement manifesting their intention that the Bylaws be adopted, altered, amended or repealed, and in all instances, with the written concurrence of the President of the University of South Florida and effective only upon the approval of the Board of Trustees, and such other approvals as may be required by law or regulation; provided, however, in the event of any meeting, notice thereof, which shall include the text of the proposed change to the Bylaws, shall be furnished in writing to each director of the Corporation, at least seven (7) days prior to the meeting at which such Bylaws alteration shall be voted upon.

The Articles of Incorporation of the Corporation may be amended by an affirmative vote of two-thirds (2/3rds) of the members of the Board present and voting at any duly held regular or special meeting of the Board or by all directors signing a written statement manifesting their intention that an amendment to the Articles of Incorporation be adopted, and in all instances, with the written concurrence of the President of the University of South Florida and the approval of the Board of Trustees, and such other approvals as may be required by law or regulation; provided, however, with respect to any meetings, notice thereof, which shall include the text of the proposed change to the Articles of Incorporation, shall be furnished in writing to each director of the Corporation at least seven (7) days prior to the meeting at which such Amendment of the Articles of Incorporation is to be voted upon.

ARTICLE X
Term of Existence

This Corporation shall have perpetual existence unless it shall be dissolved pursuant to the laws of the State of Florida.

ARTICLE XI
Dissolution
Upon dissolution or winding up of this Corporation, all of its assets remaining after the payment of all costs and expenses of such dissolution shall be disbursed to an account of the University of South Florida Foundation, Incorporated provided that it is exempt from federal income taxation under Section 501(a) of the Code as an organization described in Section 501(c)(3) of the Code, and is an organization contributions to which are deductible under Section 170(c)(2) of the Code, for use only by the University of South Florida, or in the event that such organization is not in existence or the University of South Florida Foundation, Incorporated, is not so qualified under Sections 501 and 170 of the Code, the remaining assets of the Corporation shall be distributed to such scientific, educational and charitable organizations ruled exempt by the Internal Revenue Service under Section 501(c)(3) and Section 170(c)(2) of the Code, as may be selected by the last Board of Directors, subject to the approval of the University President and the Board of Trustees and such other approvals as may be required by law, rule or regulation, and none of the assets will be distributed to any members, directors, or officers of this Corporation.
The undersigned, constituting an officer of this Corporation, for the purpose of amending and restating the Articles of Incorporation of this Corporation not for profit under the laws of the State of Florida, has executed this Amended and Restated Articles of Incorporation this 13th day of May, 2019.

____________________________________
By: Paul R. Sanberg, Ph.D., D.Sc.
Its: Chairperson and CEO

STATE OF FLORIDA
COUNTY OF HILLSBOROUGH

Before me, a Notary Public duly authorized in the State and County aforesaid to take acknowledgments, personally appeared Paul R. Sanberg, Ph.D., D.Sc., to me well known to be the person described in and who executed the foregoing Amended and Restated Articles of Incorporation, and he acknowledged before me that he executed and subscribed to these Amended and Restated Articles of Incorporation.

__________________________________
Notary Public, State of Florida at Large
My Commission Expires: ___________ (NOTARIAL SEAL)

Having been named as registered agent to accept service of process for the above stated corporation at the place designated in the Amended and Restated Articles of Incorporation, I am familiar with and accept the appointment as registered agent and agree to act in this capacity.

__________________________________   ______________________
Name: Gerard Solis     Date
Title: General Counsel
       University of South Florida
BYLAWS  
Amended and Restated as of June 6, 2019  

UNIVERSITY OF SOUTH FLORIDA RESEARCH FOUNDATION, INCORPORATED  

(a Florida Corporation Not For Profit and a University Direct Support Organization of the University of South Florida)  

ARTICLE I  
Name and Address  

The name of this corporation is University of South Florida Research Foundation, Incorporated (the “Corporation”). The principal office and mailing address of the Corporation shall be 3802 Spectrum Boulevard, Suite 100, Tampa, Hillsborough County, Florida 33612.  

ARTICLE II  
Purposes and Powers  

SECTION 1. Purposes and Powers.  

The Corporation is organized as (i) a corporation not for profit under Chapter 617, Florida Statutes, and (ii) a university direct-support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulations 1.001(8)(b) and 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. The Corporation is organized and shall be operated exclusively for charitable, scientific and educational purposes and not for pecuniary profit, and exclusively for the support and benefit of the University of South Florida (the “University” or “USF”). The Corporation shall possess all of the powers and authority as are now or may hereafter be granted to corporations not for profit and university direct-support organizations under the laws of the State of Florida. Pursuant to the Corporation’s operations and activities exclusively for the support and benefit of the University, the specific purposes for which the Corporation is organized shall include but not be limited to the promotion, encouragement and enhancement of research activities of the University of South Florida. The Corporation provides a means by which
the inventions and works of faculty, staff and students may be developed, patented, applied, and utilized so that USF’s research is made available to the public. Through this, the Corporation will enhance scientific research and educational opportunities for the University and community while attracting new technology-focused industries to the local geographic area. As such, the Corporation will further promote, stimulate, develop and advance the business prosperity and economic welfare and diversity of the State of Florida (the “State”) and its residents.

SECTION 2. Limitations on Purposes and Powers.

A. All the assets and earnings of the Corporation shall be used exclusively for the exempt purposes hereinabove set forth, including the payment of expenses incidental thereto. No part of the net earnings of the Corporation shall inure to the benefit of any member, director, or officer of the Corporation, or any other private individual, and no member, director, or officer of the Corporation or any private individual shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

B. No substantial part of the activities of the Corporation shall be the carrying on of a program of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in, or intervene in (including the publication or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office.

C. The Corporation shall not have the power to convey, lease, pledge, or otherwise encumber assets owned by the State of Florida or the University. The Corporation shall have sole responsibility for the acts, debts, liabilities, and obligations of the Corporation in accordance with Florida law.

D. The Corporation does not have the power to issue stock or pay dividends, and the private property of the members, directors, and officers shall not be liable for the debts of the Corporation.

E. The Corporation shall not have the power to conduct any activities not permitted by applicable laws including without limitation the Internal Revenue Code and pertinent Treasury Regulations (or corresponding provisions of any subsequent revenue laws) (hereinafter the “Code”).
F. Persons employed by the Corporation shall not be considered employees of the University or State of Florida by virtue of such employment.

G. The University’s President shall retain the ability, powers, and duties to: monitor and control the use of University resources and the University name by the Corporation; assure that the Corporation’s activities are consistent with and supportive of the mission of the University; monitor compliance of the Corporation with federal and state laws and applicable rules, regulations and policies; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Corporation’s assets, consistent with applicable policies; approve salaries, benefits, and other compensation paid to employees of the Corporation, consistent with applicable policies; and otherwise supervise the Corporation as provided by Florida Board of Governors Regulations 9.011, University of South Florida Regulations 13.002, and provisions of any subsequent laws, regulations, and University policies and internal management memoranda.

SECTION 3. Special Duties as a University Direct Support Corporation.

The Corporation shall comply with all requirements and perform all duties which are necessary to maintain approval and certification of the Corporation as a university direct support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulation 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. Without limiting the foregoing:

A. The Corporation shall comply with all conditions established by the Florida Board of Governors and the USF Board of Trustees in order to be approved and certified and to use property, facilities, or personal services at the University.

B. The Corporation shall comply with all such additional conditions, controls and requirements as the Florida Board of Governors and the USF Board of Trustees deems appropriate to provide for budget and audit review and oversight.

C. The Corporation’s Chief Executive Officer shall report to the University’s President (or designee) in compliance with Florida Board of Governors Regulation 9.011(2).

D. The Corporation shall prepare an operating budget at least annually which, upon
approval by the Corporation’s Board of Directors, shall be submitted for approval by the USF Board of Trustees or designee. Significant changes in planned expenditures in the approved budget must be reported by the Corporation to the USF Board of Trustees or designee as soon as practicable but no later than the deadline established by the USF Board of Trustees. The Corporation may provide any salary supplements and other compensation or benefits for University faculty and staff employees only as set forth in the Corporation’s budget and subject to approval by the University’s President.

E. The Corporation shall provide for an annual audit conducted pursuant to the University’s regulations or policies. The annual audit report shall be submitted by the Corporation to the USF Board of Trustees or designee, the Florida Board of Governors, and the Florida Auditor General for review. The USF Board of Trustees or designee, the Florida Board of Governors, the Florida Auditor General, and the Florida Office of Program and Policy Analysis and Governmental Accountability may require and receive any records relative to the operation of the Corporation from the Corporation or its independent auditors.

F. The Corporation shall submit its federal Internal Revenue Service application for Recognition of Exemption form (Form 1023) and its federal Internal Revenue Service Return of Organization Exempt form (Form 990) to the USF Board of Trustees or designee at the times required by the applicable regulation or policy of the USF Board of Trustees.

G. In the event of the Corporation’s decertification by the USF Board of Trustees, the Corporation shall provide an accounting of its assets and liabilities to the USF Board of Trustees or designee, and take such reasonable action as is necessary to secure the return of all University property and facilities as requested by the University.
ARTICLE III

Membership

The sole member of the Corporation shall be the USF Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University (the “Member.”). The Member of the Corporation shall have no voting rights as member of the Corporation.

ARTICLE IV

Board of Directors

SECTION 1. Powers and Duties

A. The Board of Directors (the “Board”) shall be the governing body of the Corporation exercising supervisory control over the operation, maintenance, and governance of the Corporation in accordance with applicable laws and regulations.

B. The Board shall have the powers, duties and responsibilities vested in the board of directors of a Florida not for profit and university direct support organization under applicable Florida laws and regulations.

SECTION 2. Qualification and Compensation of the Board of Directors

The property, affairs, business, funds and operations of the Corporation shall be managed, supervised and controlled by the Board, subject to applicable law and regulations, the limitations contained in the Corporation’s Articles of Incorporation and Bylaws, and the powers and duties reserved to the University’s President and the USF Board of Trustees. The members of the Board shall serve in such capacity without compensation. The Board shall carry out the purposes of the Corporation in compliance with the Articles of Incorporation and these Bylaws. The Board shall include the incumbent holders of the following named offices and persons from the following named classes:
A. The University's Senior Vice President for Research, Innovation & Knowledge Enterprise (the “USF Research Senior Vice President”).

B. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

C. One (1) Director shall be a person who is nominated to the Board by the University's President as the President's representative (provided, the University's President may elect to appoint the USF Research Senior Vice President to serve as the President's representative for this purpose).

D. The University's Provost and Executive Vice President.

E. The University's Senior Vice President for USF Health.

F. The University's Vice President, Business & Finance and Chief Financial Officer.

G. Two (2) members of the University's faculty who are nominated to the Board by the University's President.

H. A maximum of ten (10) additional persons, to include non-USF employees, who are each nominated to the Board by the USF Research Senior Vice President.

While the University President and USF Research Senior Vice President, shall nominate members to the Board of Directors, all Board members with the exception of the representative of the Chairperson of the USF Board of Trustees and the representative of the University President shall be approved and formally appointed by the USF Board of Trustees.

Except as may be otherwise provided in the Articles and these Bylaws, Directors shall serve a term of three (3) years and may be reappointed. Directors shall be removed in accordance with the procedure provided in the Bylaws; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees.
SECTION 3. **Removal and Resignation of Directors.**

Directors may be removed by the University’s President in his/her sole discretion; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees. Any Director may resign at any time by giving written notice to the Chairperson of the Board or to the Board. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Chairperson of the Board or the Board.

SECTION 4. **Conflict of Interest**

The Board shall adopt and keep in full force and effect a substantial conflict of interest policy for its Directors, principle officers and key employees in accordance with the rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

ARTICLE V

**Officers**

SECTION 1. **Officers of the Board of Directors**

The officers of the Board shall consist of a Chairperson, a Vice-Chairperson and such other officers as the Board may provide by resolution. All of said officers, with the exception of the Chairperson, shall be elected by the Board from the membership of the Board. The same person may not hold more than one office on the Board.

Section 1.1 **Chairperson:**

The individual who serves as the USF Research Senior Vice President shall be the Chairperson of the Board (the “Chairperson”). The Chairperson shall have the right to vote in the decisions and actions of the Board. The Chairperson shall:

A. Exercise overall supervision of Board affairs and preside at meetings of the Board.

B. Provide leadership to the Board and its committees in formulating, developing
and evaluating the Corporation's policies and goals;

C. Appoint special committees from time to time for the sole purpose of advising the Chairperson on such matters as may be deemed necessary and appropriate at the time;

D. Develop, coordinate, and supervise all operating policies and procedures of and for the Board;

E. Submit all information and reports to the University's President as required by Florida Board of Governors Regulation 9.011 and University of South Florida Regulation 13.002.

F. Perform all the duties incident to his/her office and such other duties as may be designated by the University's President or the Board.

Section 1.2 Vice-Chairperson:

The Vice-Chairperson shall:

A. In the absence of the Chairperson, preside at meetings of the Board. The Vice-Chairperson shall vote in the decisions and actions of the Board.

B. Perform such duties as may be designated by the Chairperson or the Board.

SECTION 2. Officers of the Corporation

The officers of the Corporation shall consist of a President/Chief Executive Officer (CEO), Secretary, Treasurer and such other positions as from time to time are elected or appointed by the Board. The Secretary and Treasurer positions may be held by the same person. The individual who serves as the USF Research Senior Vice President shall be the Corporation President/CEO. All other officers shall hold office until the next annual meeting of the Board or until their successors are elected or appointed by the Board.

Section 2.1 President/CEO:

The President/CEO is the direct representative of the Board in the management of the Corporation. The President/CEO’s duties shall include, but not be limited to, the following:
A. Direct and oversee performance of the Corporation.

B. Sign written instruments of the Corporation except as the Board shall provide otherwise;

C. Control the budget and funds of the Corporation;

D. Prepare annual operating and capital budgets; develop performance reports comparing actual operations with approved budgets; and submit reports on the financial condition of the Corporation to the Board at its regular meetings;

E. Create and supervise the Corporation’s administrative management structure and staff;

F. Develop, coordinate, implement, and supervise the Corporation’s operating policies and procedures; and

G. Perform all the duties incident to his/her office and such other duties as may be designated by the Board.

Section 2.2 Secretary:

The Board shall appoint an individual to serve as the Secretary. The Secretary shall:

A. Keep accurate records of attendance, votes, and minutes of all proceedings of the Board;

B. Ensure that a quorum of Directors is present to conduct Board meetings;

C. Sign written instruments of the Corporation except as the Board shall provide otherwise;

D. Have charge of and affix the corporate seal to instruments as appropriate;

E. Have charge of all official records of the Corporation that shall be at all reasonable times open to the inspection of any Director; and

F. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

Section 2.3 Treasurer:

The Board shall appoint an individual to serve as the Treasurer. The Treasurer shall:
A. Support the President/CEO in controlling the budget and funds of the Corporation;

B. Support the President/CEO in preparing annual operating and capital budgets; developing performance reports comparing actual operations with approved budgets; and submitting reports on the financial condition of the Corporation to the Board at its regular meetings;

C. Receive and keep the funds of the Corporation and pay out the same only in accordance with the guidelines established by the Board;

D. Deposit all monies, checks and other credits to the account of the Corporation in such bank or banks or other depositories as the Board may designate;

E. Review all receipts and vouchers for payment made to and all vouchers and checks made by the Corporation and shall regularly maintain a full and accurate account of all funds received and paid out by the Corporation;

F. Render to the Board an account and statement of the Treasurer's actions at the annual meeting of the Board and at such other times as the Board may determine;

G. At all reasonable times exhibit the Treasurer's books and accounts to any Director of the Board;

H. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

SECTION 3. Resignation and Removal

Any officer of the Corporation may resign at any time by giving written notice to the Chairperson or the Secretary. Any such resignation shall take effect at the time specified in the notice, or, if no time is specified therein, upon its acceptance by the Chairperson or the Board. The Chairperson or the Board may, with or without cause, remove from office any officer or agent of the Corporation except the Corporation President/CEO. The University President may, with or without cause, remove from office the Corporation President/CEO. The Chairperson or the Board shall have authority to make appointments to fill vacancies in officer positions, subject to the provisions of these Bylaws.
ARTICLE VI
Meetings of the Board of Directors and its Committees

SECTION 1. Regular Meetings.

The Board shall hold regular meetings as called by the Chairperson. One regular meeting of the Board, to be held in October of each year, shall be designated the annual meeting of the Board for the purpose of electing officers as applicable, appointing new committee members as applicable, and the transaction of other business. The Chairperson and the chairpersons of committees shall fix the time and place of regular meetings of such Board or committee, respectively.

SECTION 2. Special Meetings.

The Chairperson and the chairpersons of committees shall have authority to call special meetings of such Board or committee respectively whenever he/she deems necessary or desirable. In addition, the Chairperson and the chairpersons of committees shall call a special meeting whenever requested in writing to do so by a majority of the members of the Board or other committee.

SECTION 3. Participation in Meetings by Telephone.

Members of the Board and committees may participate in meetings of the Board and committees by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

SECTION 4. Notice, Agendas and Minutes.

A. Unless waived as provided by law, written notice of the place, date, time, and purpose of regular Board and committee meetings shall be given to each member thereof by personal delivery, mail, or email at least one (1) day prior to said meetings, and similar notice of any special meetings shall be given to all Board or
committee members as soon as practicable prior to said meetings. Either a regular or special meeting may be held without notice if all Board or committee members waive, in writing, the right to receive notice. Notice of a meeting need not be given to any member who signs a waiver of notice either before or after the meeting. Attendance of any Board or committee member at any meeting shall be deemed a waiver of notice of such meeting and a waiver of any and all objections to the place of the meeting, the time of the meeting, or the manner in which it has been called or convened, except when a member states at the beginning of the meeting or promptly upon arrival at the meeting, any objection to the transaction of affairs because the meeting is not lawfully called or convened.

B. The Chairperson of the Board and the chairpersons of committees may elect to provide notices of Board and committee meetings to individuals other than members of such Board or committee, respectively. The Chairperson shall provide notices of all Board meetings to the USF Chief Financial Officer who shall have the right to attend all meetings of the Board.

C. A written agenda of the matters to be considered at a Board or committee meeting shall be delivered to members thereof prior to such meeting, provided, however, that Board and committee proceedings shall not be limited to matters set forth in such agenda.

D. Written minutes of the proceedings of the Board and committees shall be maintained and all actions taken at Board and committee meetings shall be properly recorded in the minutes. Minutes shall, where reasonably possible, be delivered to the members of the Board or committee in advance of its next scheduled meeting.

SECTION 5. **Quorum and Voting.**

A. The presence of a majority of the members of the Board shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of the Board.

B. The presence of a majority of the members of any Board committee shall be necessary and sufficient to constitute a quorum for the transaction of business at
all meetings of committees of such Board committee.

C. In the absence of a quorum, a majority of members present at the meeting of the Board or committee may adjourn the meeting until a quorum is present for the transaction of business.

D. The vote of a majority of the members of the Board or any Board committee present at a meeting of the Board or committee shall constitute the action of the Board or committee except as otherwise provided by these Bylaws.


The most recent edition of “Roberts Rules of Order” shall be followed in conducting the meetings of the Board and committees unless otherwise provided by resolution of the Board.

ARTICLE VII

Committees of the Board of Directors

SECTION 1. Appointment to and Removal from, Composition, and Term of Committees.

A. The chairpersons and members of all standing and special committees of the Board shall be appointed as provided by these Bylaws. A committee chairperson or member may be removed from a committee only by the Board.

B. All committees of the Board shall consist of not less than three (3) members, at least one (1) of whom shall be a Director. Individuals other than Directors shall be eligible to serve on committees. However, the chairperson of each committee shall be a Director.

C. The chairpersons and members of standing committees shall continue in these capacities until their successors have been appointed. Special committees shall be discharged by the Board upon completion of the task for which they are established.

SECTION 2. Executive Committee.

A. The Corporation shall have an Executive Committee that has and may exercise all
of the authority of the Board in the management of the Corporation, except that such Executive Committee shall not have authority to (a) designate individuals for the office of Director or membership on the Executive Committee, (b) amend the Articles of Incorporation or these Bylaws, or (c) approve the annual operating budget.

B. Composition.

The Executive Committee shall consist of the following members:

1. Corporation President and Chairperson of the Board
2. Corporation Secretary
3. Corporation Treasurer
4. The University’s Provost and Executive Vice President.
5. Director selected and appointed to the Board by the Chairperson of the USF Board of Trustees.
6. Director nominated to the Board by the University’s President as the President's representative.
7. The University’s Senior Vice President for USF Health.

SECTION 3. Other Standing and Special Committees.

A. Composition.

The Board may by resolution appoint one or more other standing or special committees which shall perform specific functions and tasks as provided in the resolution, except that a delegation of power to such committees shall not include any of the following powers:

(i) approve or recommend to members actions or proposals required by Chapter 617, Florida Statutes, to be approved by members;
(ii) fill vacancies on the Board or any committee thereof;
(iii) adopt, amend, or repeal the Articles of Incorporation or these Bylaws of the Corporation;
(iv) sell, lease, exchange, or otherwise dispose of all or substantially all of the
property and assets of the Corporation;
(v) adopt a plan of voluntary dissolution of the Corporation;
(vi) amend or repeal any resolution approved by the Board; or
(vii) exercise any other powers specifically provided in the Bylaws as being reserved for the Board.

In addition, if such a committee includes a member who is not a Director, the committee shall not be delegated any powers of the Board. The Board shall have the authority to appoint a special committee from time to time for the sole purpose of advising the Board on such matters as may be deemed necessary and appropriate at the time.

B. Meetings, Quorums and Minutes.

Meetings of standing and special committees may be called by the chairperson of the committee or by the Board, or by the Chairperson, and notice of any committee meeting shall be given in the manner provided in these Bylaws for notices of special meetings of the Board. Each committee shall keep regular minutes of its proceedings. The Chairperson, and his/her designees, shall have the right to attend any meeting of any special and standing committee.

ARTICLE VIII
Adoption and Amendments

The Board shall adopt these Bylaws and may from time to time modify, alter, amend or repeal the Bylaws by an affirmative vote of two-thirds (2/3) of the members of the Board present and voting at any duly held regular or special meeting of the Board, or by all Directors signing a written statement manifesting their intention that the Bylaws be adopted, amended or repealed; provided, with respect to such meetings, notice thereof, which shall include the text of the proposed change to the Bylaws, shall be furnished in writing to each member of the Board at least seven (7) days prior to the meeting at which the change to the Bylaws is to be voted upon; provided further, the adoption, amendment or repeal of the Bylaws shall not be effective without the written concurrence of the University’s President, the USF Board of Trustees, and such other approvals as may be required by law or regulation.
ARTICLE IX

Indemnification

The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Article shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Article shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE X

Dedication of Assets and Dissolution

The Corporation dedicates all assets which it may acquire to the charitable purposes as set forth in Article III hereof. In the event that the Corporation shall dissolve or otherwise terminate its corporate existence, subject to the provision of Chapter 617, Florida Statutes, the Corporation shall distribute all its existing assets as provided in the Articles of Incorporation.

ARTICLE XI

Access to Corporate Records

Public access to all records of the Corporation shall be governed by Section 1004.28, Florida Statutes and the Corporation’s policy on disclosure of records.
BYLAWS

OF

USF PROPERTY CORPORATION

Effective March 10, 2005
Revised April 25, 2005
Revised November 28, 2005
Draft Revision April 30, 2019
## Table of Contents

<table>
<thead>
<tr>
<th>Article</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ARTICLE 1 NAME</strong></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>ARTICLE 2 PURPOSE</strong></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>ARTICLE 3 POWERS</strong></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>ARTICLE 4 BOARD OF DIRECTORS</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SECTION 4.1 General Powers</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SECTION 4.2 Reserved Powers</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SECTION 4.3 Number</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SECTION 4.4 Appointment of Directors and Tenure</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SECTION 4.5 Removal of Directors</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>SECTION 4.6 Conflicts and Duality of Interest</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>SECTION 4.7 Conflict of Interest Policy</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>SECTION 4.8 Directors' Meetings</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>ARTICLE 5 OFFICERS</strong></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>SECTION 5.1 Officers</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>SECTION 5.2 Appointment and Term of Office</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 5.3 Removal</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 5.4 Vacancies</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>ARTICLE 6 COMMITTEES</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 6.1 Creation of Committees</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 6.2 Executive Committee</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 6.3 Other Committees</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 6.4 Meetings of Committees</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SECTION 6.5 Vacancies on Committees</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>SECTION 6.6 Minutes of Committees</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td><strong>ARTICLE 7 INDEMNIFICATION</strong></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>SECTION 7.1 Indemnification</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td><strong>ARTICLE 8 AMENDMENT</strong></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td><strong>ARTICLE 9 QUARTERLY EXPENDITURE PLANS</strong></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td><strong>ARTICLE 10 FISCAL YEAR AND FINANCIAL AUDITS</strong></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>SECTION 10.1 Fiscal Year</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>SECTION 10.2 Financial Audits</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td><strong>ARTICLE 11 EMPLOYEES</strong></td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>
ARTICLE 12 PARLIAMENTARY RULES

ARTICLE 13 DISSOLUTION
BYLAWS
OF
USF PROPERTY CORPORATION

ARTICLE 1
NAME

The name of the Corporation shall be USF Property Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
PURPOSES

The purposes for which the Corporation is organized are:

(a) In particular, to support the activities and educational purposes of the University of South Florida and of the University of South Florida Financing Corporation by assisting in acquiring facilities and constructing facilities on its campuses and, in general, furthering its educational mission.

(b) To further the purposes listed above, to do any and all acts and things, and to exercise any and all powers which now or hereafter are lawful for the corporation to do or exercise under and pursuant to Chapter 617, Florida Statutes.

(c) The purposes for which this Corporation is organized shall be limited to those which are strictly charitable. In no event shall this Corporation engage in any activity which would be contrary to the purposes and activities: (1) permitted to be engaged in by any organization the activities of which are exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1986; or (2) of a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

(d) The Corporation shall not engage, nor shall any of its funds, property, or income be used, in carrying on propaganda or otherwise attempting to influence legislation, nor shall the corporation participate in or intervene in (including the publishing or distributing of statements) any political campaign on behalf of any candidate for public office, nor shall the corporation engage in subversive activities.

(e) The Corporation shall not be operated for the primary purpose of carrying on an unrelated trade or business as defined in Section 513 of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.
(f) No compensation shall be paid to any officer, director, trustee, creator or organizer of the Corporation or substantial contributor to it except as a reasonable allowance for services actually rendered to or for the Corporation.

(g) The Corporation is organized to serve public interests. Accordingly, it shall not be operated for the benefit of private interests.

Provided, further, that: (i) no part of the net earnings of the Corporation shall inure to the benefit of any member of the corporation or other individual; (ii) the income of the Corporation for each taxable year must be distributed at such time and in such manner so as not to subject the corporation to the tax imposed by Section 4942 of the Code; (iii) the Corporation shall not engage in any act of self dealing (as defined in Section 4941(d) of the Code), retain any excess business holdings (as defined in Section 4943(c) of the Code), make any investment in such a manner so as to subject the corporation to taxation under Section 4944 of the Code, or make any taxable expenditure (as defined in Section 4945(d) of the Code), and (iv) the Corporation shall not conduct its business or affairs in such a manner as to discriminate against any person on the basis of race, color, religion, sex, or age. It is the specific intention of the incorporator that the purposes and application of the Corporation be as broad as permitted by Section 617.0301 of the Florida Not For Profit Corporation Act, but only to the extent that the corporation qualifies as a tax exempt organization within the meaning of Section 501(c)(3) and Section 170 of the Code.

ARTICLE 3
POWERS

The Corporation shall have and exercise all powers of a corporation not for profit as the same now exist or may hereinafter exist under the laws of the State of Florida, including but not limited to: the power to facilitate the acquisition (through lease, purchase or otherwise) of property for the construction of facilities (alone or in connection with other entities) for use by the students, faculty and staff of the University of South Florida and the general public. No part of the assets, income or profits of the Corporation shall be distributable to, or inure to the benefit of, its members, directors or officers or any private individual, except that the Corporation shall be authorized and empowered to pay reasonable compensation to its employees for services rendered and to make payments and distributions in the furtherance of the purposes set forth herein. Notwithstanding any other provision hereof, in no event shall the Corporation have or exercise any power which would cause it not to qualify as a tax-exempt organization under Section 501(c)(3) or Section 170 of the Internal Revenue Code of 1986 as amended and the applicable rules and regulations thereunder; nor shall the Corporation conduct or carry on any activities not permitted to be conducted or carried on by an organization exempt from federal income taxation under Section 501(c)(3) of the Code or by an organization, contributions to which are deductible under Section 170(c)(2) of the Code.
ARTICLE 4
BOARD OF DIRECTORS

SECTION 4.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regards to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 4.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;

(b) To control the use of the University name by this Corporation;

(c) To monitor compliance of this Corporation with federal and state laws;

(d) To recommend to the Board of Directors an annual budget of this Corporation; and

(e) To review and approve quarterly expenditure plans of this Corporation.

SECTION 4.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 4.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(a) One director shall be appointed by the Chair of the University Board of Trustees;

(b) One director shall be the President of the University or his or her designee;

(c) One director shall be the Chief Financial Officer of the University or his or her designee;

(d) Two directors, one from the Boards of Directors of each of two of the University's Regional Campuses shall be appointed by the then current members of the Board of Directors; and

(e) Up to four additional directors, once appointed and approved by the
University Board of Trustees, may be elected at the annual meeting of the Board of Directors by the then current members of the Board of Directors; and.

(e) Except as set forth in (a) and (b) above, the University Board of Trustees shall approve all appointments to the Board of Directors.

Terms of office of the members of the Board of Directors shall be four years in length. A director shall not be eligible to serve more than two consecutive terms. A director who has served two terms consecutively may be re-appointed or re-elected to the Board of Directors after the expiration of one-year following the end of his or her last previous term, and upon approval by the University Board of Trustees and will have the status of a new member. Notwithstanding the foregoing, the President of the University or his or her designee and the director appointed by the President of the University pursuant to Section 3.4(3) above, shall serve until the earlier of the President's resignation, removal from office or death. A vacancy on the Board of Directors with respect to elected members may be filled by a vote of the remaining directors at their sole and absolute discretion, upon approval by the University Board of Trustees; however, the Chair of the Board of Trustees shall designate replacements for the directors appointed by him or her. If a director is appointed and approved to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced.

SECTION 4.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Chairperson. Any director, other than the director appointed by the Chair of the Board of Trustees or the President of the University or his or her designee, may be removed from the Board of Directors at any time with or without cause by a two-thirds vote of the Board of Directors.

SECTION 4.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 4.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 4.8 Directors' Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida at 3:00 PM on the 1st Tuesday of November of each year, or on such other date as the Board of Directors shall agree. Regular meetings of the Board of Directors may be held, with or without notice, at such time and place as from time to time shall
be determined by the Chairperson of the Board. Special meetings of the Board of Directors may be called by the Chairperson of the Board or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice of the time and place of special meetings of the Board of Directors shall be given to each director either by personal delivery or by mail, facsimile, telegram or email at least three days before the meeting. Members of the Board may participate in meetings of the Board by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from time to time until a quorum shall be present for the transaction of business.

ARTICLE 5
OFFICERS

SECTION 5.1 Officers. The officers of this Corporation shall be a Chairperson, an Executive Director, a Secretary, a Treasurer and such other officers as may be determined by the Board of Directors. All officers shall have such authority and perform such duties as described below:

(a) Chairperson. The Chairperson shall preside at all meetings of the Board of Directors and shall do and perform such other duties as may be assigned by the Board of Directors.

(b) Executive Director. The Executive Director shall be responsible for the general, day-to-day management of the affairs of the Corporation. He or she shall exercise such authority to accept gifts, collect revenues and make expenditures as he or she deems necessary. The Executive Director is authorized to direct the sale of real estate of the Corporation and is also authorized to execute, in the name of the Corporation, with the Secretary attesting, all certificates, contracts, leases, deeds, notes and other documents or legal instruments. He or she shall be responsible for the maintenance and management of the Corporation's activities and personnel.

(c) Secretary. The Secretary shall keep full and accurate minutes for all meetings of the Board of Directors and the Executive Committee. He or she shall transmit all notices required by these Bylaws as may be amended. He or she may sign documents with the Executive Director in the name of the Corporation. The Secretary shall have charge of all official records of the Corporation that shall be at all reasonable times open to examination of any director, and shall in general perform all duties incident to management of the office of Secretary for the Board of Directors.
(d) Treasurer. The Treasurer shall be a member of the Finance Committee, if any, of the Corporation. He or she shall present the financial statements of the Corporation to the Board of Directors at each regular meeting of the Board of Directors and at such other times as the Board of Directors may determine. He or she shall ascertained that a full and accurate account is made of all monies received and paid out on accounts administered by the Corporation, and shall in general perform all duties incident to management of the Office of Treasurer for the Board of Directors.

SECTION 5.2 Appointment and Term of Office. The Executive Director of the Corporation shall be appointed by the President of the University. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director shall hold office until his successor shall have been appointed or until his death, resignation or removal from office and each of the other officers shall serve terms of two years, each commencing immediately following their election or appointment.

SECTION 5.3 Removal. Any officer, other than the Executive Director, may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served.

SECTION 5.4 Vacancies. A vacancy in any office, other than Executive Director, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director shall be filled by the President of the University.

ARTICLE 6
COMMITTEES

SECTION 6.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.

SECTION 6.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Chair of the Board of Trustees of the University shall appoint a representative to the Executive Committee and the President of the University, or his or her designee, shall also serve as a member of the Executive Committee.

SECTION 6.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 6.4 Meetings of Committees. Regular meetings of the Executive
Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days' notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such committee, given either personally or by mail, facsimile, telegram or email.

SECTION 6.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement and if the vacancy is with respect to the designee of the President of the University then the President shall appoint a replacement.

SECTION 6.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 7
INDEMNIFICATION

SECTION 7.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE 8
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.

ARTICLE 9
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal
year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

(a) capital projects, including land acquisition, construction, renovation or repair;

(b) compensation and benefits to University employees and employees of the Corporation; and

(c) other major commitments of the resources of this Corporation.

ARTICLE 10
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 10.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 10.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 1 Florida Statutes, as may be amended or supplemented. The Corporation shall submit the annual audit report to the President of the University within nine months after the end of the fiscal year. In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exception (form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and the State Board of Education and/or the Board of Governors, as required by applicable laws of the State of Florida.

ARTICLE 11
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the State of Florida or an employee of the University by virtue of his or her employment by the Corporation. The Corporation shall provide equal employment opportunities to all persons regardless of race, color, religion, gender, age or natural origin.

ARTICLE 12
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the meetings of the Board of Directors, unless otherwise provided in these bylaws.
ARTICLE 13
DISSOLUTION

In the event of dissolution of the Corporation, the winding up of its affairs, or other liquidation of its assets, the Corporation's property and all assets remaining after the payment of the Corporation's debts shall be conveyed or distributed at the direction of the then Directors of the Corporation to and only to the University of South Florida Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University of South Florida, or if such Board of Trustees has ceased to exist, to the University of South Florida, or to a direct support organization of the University of South Florida as that term is used in Section 1004 of the Florida Statutes which is also tax-exempt under Section 501(c)(3) of the Internal Revenue Code or, if all such organizations have ceased to exist, to such other organization or organizations that are exempt from federal income tax under Section 501(c)(3) of the Code as directed by the Board of Governors of the State of Florida. No part of the assets or the net earnings, current or accumulated, of the Corporation shall inure to the benefit of a private individual or entity.
Draft Revision April 30, 2019

BYLAWS

OF

USF PROPERTY CORPORATION

Effective March 10, 2005
Revised April 25, 2005
Revised November 28, 2005
Draft Revision April 30, 2019
Draft Revision April 30, 2019

ARTICLE 12 PARLIAMENTARY RULES .......................................................... 8
ARTICLE 13 DISSOLUTION ........................................................................... 8
BYLAWS
OF
USF PROPERTY CORPORATION

ARTICLE 1
NAME

The name of the Corporation shall be USF Property Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
PURPOSES

The purposes for which the Corporation is organized are:

(a) In particular, to support the activities and educational purposes of the University of South Florida and of the University of South Florida Financing Corporation by assisting in acquiring facilities and constructing facilities on its campuses and, in general, furthering its educational mission.

(b) To further the purposes listed above, to do any and all acts and things, and to exercise any and all powers which now or hereafter are lawful for the corporation to do or exercise under and pursuant to Chapter 617, Florida Statutes.

(c) The purposes for which this Corporation is organized shall be limited to those which are strictly charitable. In no event shall this Corporation engage in any activity which would be contrary to the purposes and activities: (1) permitted to be engaged in by any organization the activities of which are exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1986; or (2) of a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

(d) The Corporation shall not engage, nor shall any of its funds, property, or income be used, in carrying on propaganda or otherwise attempting to influence legislation, nor shall the corporation participate in or intervene in (including the publishing or distributing of statements) any political campaign on behalf of any candidate for public office, nor shall the corporation engage in subversive activities.

(e) The Corporation shall not be operated for the primary purpose of carrying on an unrelated trade or business as defined in Section 513 of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.
Draft Revision April 30, 2019

(f) No compensation shall be paid to any officer, director, trustee, creator or organizer of the Corporation or substantial contributor to it except as a reasonable allowance for services actually rendered to or for the Corporation.

(g) The Corporation is organized to serve public interests. Accordingly, it shall not be operated for the benefit of private interests.

Provided, further, that: (i) no part of the net earnings of the Corporation shall inure to the benefit of any member of the corporation or other individual; (ii) the income of the Corporation for each taxable year must be distributed at such time and in such manner so as not to subject the corporation to the tax imposed by Section 4942 of the Code; (iii) the Corporation shall not engage in any act of self dealing (as defined in Section 4941(d) of the Code), retain any excess business holdings (as defined in Section 4943(c) of the Code), make any investment in such a manner so as to subject the corporation to taxation under Section 4944 of the Code, or make any taxable expenditure (as defined in Section 4945(d) of the Code), and (iv) the Corporation shall not conduct its business or affairs in such a manner as to discriminate against any person on the basis of race, color, religion, sex, or age. It is the specific intention of the incorporator that the purposes and application of the Corporation be as broad as permitted by Section 617.0301 of the Florida Not For Profit Corporation Act, but only to the extent that the corporation qualifies as a tax exempt organization within the meaning of Section 501(c)(3) and Section 170 of the Code.

ARTICLE 3
POWERS

The Corporation shall have and exercise all powers of a corporation not for profit as the same now exist or may hereinafter exist under the laws of the State of Florida, including but not limited to: the power to facilitate the acquisition (through lease, purchase or otherwise) of property for the construction of facilities (alone or in connection with other entities) for use by the students, faculty and staff of the University of South Florida and the general public. No part of the assets, income or profits of the Corporation shall be distributable to, or inure to the benefit of, its members, directors or officers or any private individual, except that the Corporation shall be authorized and empowered to pay reasonable compensation to its employees for services rendered and to make payments and distributions in the furtherance of the purposes set forth herein. Notwithstanding any other provision hereof, in no event shall the Corporation have or exercise any power which would cause it not to qualify as a tax-exempt organization under Section 501(c)(3) or Section 170 of the Internal Revenue Code of 1986 as amended and the applicable rules and regulations thereunder; nor shall the Corporation conduct or carry on any activities not permitted to be conducted or carried on by an organization exempt from federal income taxation under Section 501(c)(3) of the Code or by m organization, contributions to which are deductible under Section 170(c)(2) of the Code.
ARTICLE 4
BOARD OF DIRECTORS

SECTION 4.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regards to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 4.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;

(b) To control the use of the University name by this Corporation;

(c) To monitor compliance of this Corporation with federal and state laws;

(d) To recommend to the Board of Directors an annual budget of this Corporation; and

(e) To review and approve quarterly expenditure plans of this Corporation.

SECTION 4.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 4.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(a) One director shall be appointed by the Chair of the University Board of Trustees;

(b) One director shall be the President of the University or his or her designee;

(c) One director shall be the Chief Financial Officer of the University or his or her designee;

(d) Up to four additional directors, once appointed and approved by the University Board of Trustees, may be elected at the annual meeting of the Board of Directors by the then current members of the Board of Directors; and

(e) Except as set forth in (a) and (b) above, the University Board of Trustees shall
Terms of office of the members of the Board of Directors shall be four years in length. A director shall not be eligible to serve more than two consecutive terms. A director who has served two terms consecutively may be re-elected to the Board of Directors after the expiration of one-year following the end of his or her last previous term, and upon approval by the University Board of Trustees and will have the status of a new member. Notwithstanding the foregoing, the President of the University or his or her designee shall serve until the earlier of the President's resignation, removal from office or death. A vacancy on the Board of Directors with respect to elected members may be filled by a vote of the remaining directors at their sole and absolute discretion, upon approval by the University Board of Trustees; however, the Chair of the Board of Trustees shall designate replacements for the directors appointed by him or her. If a director is appointed and approved to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced.

SECTION 4.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Chairperson. Any director, other than the director appointed by the Chair of the Board of Trustees or the President of the University or his or her designee, may be removed from the Board of Directors at any time with or without cause by a two-thirds vote of the Board of Directors.

SECTION 4.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 4.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 4.8 Directors' Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida at 3:00 PM on the 1st Tuesday of November of each year, or on such other date as the Board of Directors shall agree. Regular meetings of the Board of Directors may be held, with or without notice, at such time and place as from time to time shall be determined by the Chairperson of the Board. Special meetings of the Board of Directors may be called by the Chairperson of the Board or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice of the time and place of special meetings of the Board of Directors shall be given to each director either by personal delivery or by mail, facsimile, telegram or email at least three days before the meeting. Members of the
Board may participate in meetings of the Board by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from time to time until a quorum shall be present for the transaction of business.

**ARTICLE 5**

**OFFICERS**

**SECTION 5.1 Officers.** The officers of this Corporation shall be a Chairperson, an Executive Director, a Secretary, a Treasurer and such other officers as may be determined by the Board of Directors. All officers shall have such authority and perform such duties as described below:

(a) Chairperson. The Chairperson shall preside at all meetings of the Board of Directors and shall do and perform such other duties as may be assigned by the Board of Directors.

(b) Executive Director. The Executive Director shall be responsible for the general, day-to-day management of the affairs of the Corporation. He or she shall exercise such authority to accept gifts, collect revenues and make expenditures as he or she deems necessary. The Executive Director is authorized to direct the sale of real estate of the Corporation and is also authorized to execute, in the name of the Corporation, with the Secretary attesting, all certificates, contracts, leases, deeds, notes and other documents or legal instruments. He or she shall be responsible for the maintenance and management of the Corporation's activities and personnel.

(c) Secretary. The Secretary shall keep full and accurate minutes for all meetings of the Board of Directors and the Executive Committee. He or she shall transmit all notices required by these Bylaws as may be amended. He or she may sign documents with the Executive Director in the name of the Corporation. The Secretary shall have charge of all official records of the Corporation that shall be at all reasonable times open to examination of any director, and shall in general perform all duties incident to management of the office of Secretary for the Board of Directors.

(d) Treasurer. The Treasurer shall be a member of the Finance Committee, if any, of the Corporation. He or she shall present the financial statements of the Corporation to the Board of Directors at each regular meeting of the Board of Directors and at such other times as the Board of Directors may determine. He or she shall ascertain that a full and accurate account
Draft Revision April 30, 2019

is made of all movies received and paid out on accounts administered by the Corporation, and shall in general perform all duties incident to management of the Office of Treasurer for the Board of Directors.

SECTION 5.2 Appointment and Term of Office. The Executive Director of the Corporation shall be appointed by the President of the University. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director shall hold office until his successor shall have been appointed or until his death, resignation or removal from office and each of the other officers shall serve terms of two years, each commencing immediately following their election or appointment.

SECTION 5.3 Removal. Any officer, other than the Executive Director, may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served.

SECTION 5.4 Vacancies. A vacancy in any office, other than Executive Director, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director shall be filled by the President of the University.

ARTICLE 6
COMMITTEES

SECTION 6.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.

SECTION 6.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Chair of the Board of Trustees of the University shall appoint a representative to the Executive Committee and the President of the University, or his or her designee, shall also serve as a member of the Executive Committee.

SECTION 6.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 6.4 Meetings of Committees. Regular meetings of the Executive Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days’ notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such
committee, given either personally or by mail, facsimile, telegram or email.

SECTION 6.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement and if the vacancy is with respect to the designee of the President of the University then the President shall appoint a replacement.

SECTION 6.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 7
INDEMNIFICATION

SECTION 7.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE 8
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.

ARTICLE 9
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

(a) capital projects, including land acquisition, construction, renovation or
repair;

(b) compensation and benefits to University employees and employees of the Corporation; and

(c) other major commitments of the resources of this Corporation.

ARTICLE 10
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 10.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 10.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 1 Florida Statutes, as may be amended or supplemented. The Corporation shall submit the annual audit report to the President of the University within nine months after the end of the fiscal year. In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exemption (Form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and the State Board of Education and/or the Board of Governors, as required by applicable laws of the State of Florida.

ARTICLE 11
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the State of Florida or an employee of the University by virtue of his or her employment by the Corporation. The Corporation shall provide equal employment opportunities to all persons regardless of race, color, religion, gender, age or natural origin.

ARTICLE 12
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the meetings of the Board of Directors, unless otherwise provided in these bylaws.

ARTICLE 13
DISSOLUTION

In the event of dissolution of the Corporation, the winding up of its affairs, or other liquidation of its assets, the Corporation's property and all assets remaining after the
payment of the Corporation's debts shall be conveyed or distributed at the direction of the then Directors of the Corporation to and only to the University of South Florida Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University of South Florida, or if such Board of Trustees has ceased to exist, to the University of South Florida, or to a direct support organization of the University of South Florida as that term is used in Section 1004 of the Florida Statutes which is also tax-exempt under Section 501(c)(3) of the Internal Revenue Code or, if all such organizations have ceased to exist, to such other organization or organizations that are exempt from federal income tax under Section 501(c)(3) of the Code as directed by the Board of Governors of the State of Florida. No part of the assets or the net earnings, current or accumulated, of the Corporation shall inure to the benefit of a private individual or entity.
BYLAWS

OF

USF HEALTH PROFESSIONS CONFERENCING CORPORATION

A University Direct-Support Organization of the
University of Florida

Adopted by Board of Directors on February 2, 2006
Confirmed by USF Board of Trustees on March 2, 2006
BYLAWS
OF
USF HEALTH PROFESSIONS CONFERENCE CORPORA TION

ARTICLE 1
NAME

The name of the Corporation shall be USF Health Professions Conferencing Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
MEMBERS

The Corporation's sole member shall be the University of South Florida Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University of South Florida, herein referred to as "Member."

ARTICLE 3
BOARD OF DIRECTORS

SECTION 3.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regard to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 3.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;
(b) To control the use of the University name by this Corporation;
(c) To monitor compliance of this Corporation with federal and state laws;
(d) To recommend to the Board of Directors an annual budget of this Corporation; and
(e) To review and approve quarterly expenditure plans of this Corporation.

SECTION 3.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 3.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(1) One director shall be appointed by the Chair of the University's Board of Trustees;

(2) One director shall be the University Vice President for Health Sciences;

(3) Up to five directors appointed by the University Vice President for Health Sciences.

Terms of office of the members of the Board of Directors shall be four years in length. Members are eligible for reappointment. If a director is appointed to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced.

SECTION 3.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Chairperson and the Executive Director. The appointees of each person may be removed as a Director, without cause, by the appointing person.

SECTION 3.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 3.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 3.8 Directors' Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida. Regular meetings of the Board of Directors may be held, with or without notice, at such time and place as from time to time shall be determined by the Chairperson of the Board or by the Executive Director. Special meetings of the Board of Directors may be called by the Chairperson of the Board or the Executive Director or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice
of the time and place of special meetings of the Board of Directors shall be given to each director
either by personal delivery or by mail, facsimile, telegram or email at least three days before the
meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number
of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from
time to time until a quorum shall be present for the transaction of business.

ARTICLE 4
OFFICERS

SECTION 4.1 Officers. The officers of this Corporation shall be a Chairperson, an
Executive Director, a Secretary-Treasurer and such other officers as may be determined by the
Board of Directors. With the exception of the Executive Director and the Secretary-Treasurer,
only members of the Board of Directors of the Corporation may be appointed as an officer of the
Corporation pursuant to this Article 4. All officers shall have such authority and perform such
duties as described below:

(1) Chairperson. The Chairperson shall preside at all meetings of the Board of
Directors and shall do and perform such other duties as may be assigned by the Board of
Directors.

(2) Executive Director. The Executive Director shall be responsible for the general,
day-to-day management of the affairs of the Corporation. The Executive Director shall be
responsible for the maintenance and management of the Corporation's activities and personnel
and will have such authority and responsibility as may be prescribed by resolution of the Board
of Directors.

(3) Secretary-Treasurer. The Secretary-Treasurer shall keep full and accurate
minutes for all meetings of the Board of Directors and the Executive Committee, shall transmit
all notices required by these Bylaws as may be amended and may sign documents with the
Executive Director in the name of the Corporation. The Secretary-Treasurer shall have charge
of all official records of the Corporation that shall be at all reasonable times open to examination
of any director, and shall in general perform all duties incident to management of the office of
Secretary-Treasurer for the Board of Directors. The Secretary-Treasurer shall be a member of
the Finance Committee, if any, of the Corporation, shall present the financial statements of the
Corporation to the Board of Directors at each regular meeting of the Board of Directors and at
such other times as the Board of Directors may determine. The Secretary-Treasurer shall
ascertain that a full and accurate account is made of all monies received and paid out on
accounts administered by the Corporation.
SECTION 4.2 Election, Appointment and Term of Office. The Chairperson shall be elected by the Board of Directors at the organizational and annual meetings of the Board. The Executive Director and the Secretary-Treasurer shall be appointed by the University Vice President for Health Sciences. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director and the Secretary-Treasurer shall hold office until his or her successor shall have been appointed or until his or her death, resignation or removal from office and each of the other officers shall serve terms of one year, each commencing immediately following their election or appointment.

SECTION 4.3 Removal. Any officer may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served. The Secretary-Treasurer and the Executive Director may be removed with or without cause by the University Vice President for Health Sciences.

SECTION 4.4 Vacancies. A vacancy in any office, other than Executive Director and the Secretary-Treasurer, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director or Secretary-Treasurer shall be filled by the University Vice President for Health Sciences.

ARTICLE 5
COMMITTEES

SECTION 5.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.

SECTION 5.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Director appointed by the Chair of the Board of Trustees shall also serve as a member of the Executive Committee.

SECTION 5.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 5.4 Meetings of Committees. Regular meetings of the Executive Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days' notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such committee, given either personally or by mail, facsimile, telegram or email.
SECTION 5.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement.

SECTION 5.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 6
INDEMNIFICATION

SECTION 6.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE 7
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.

ARTICLE 8
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

(a) capital projects, including land acquisition, construction, renovation or repair;

(b) compensation and benefits to University employees and employees of the
Corporation; and

(c) other major commitments of the resources of this Corporation.

ARTICLE 9
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 9.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 9.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 11.45, Florida Statutes, as may be amended or supplemented. The President of the University shall submit the annual audit report to the Board of Trustees and the Auditor General within nine months after the end of the fiscal year. In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exception (form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and the State Board of Education and/or the Board of Governors, as required by applicable laws of the State of Florida.

ARTICLE 10
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the State of Florida or an employee of the University by virtue of his or her employment by the Corporation. The Corporation shall provide equal employment opportunities to all persons regardless of race, color, religion, gender, age or natural origin.

ARTICLE 11
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the meetings of the Board of Directors, unless otherwise provided in these bylaws.
BYLAWS

OF

USF HEALTH PROFESSIONS CONFERENCING CORPORATION

A University Direct-Support Organization of the
University of South Florida

Adopted by Board of Directors on February 2, 2006
Confirmed by USF Board of Trustees on March 2, 2006
Amended by Board of Directors on May 22, 2007 and October 5, 2007
Accepted by USF Board of Trustees on March 20, 2008
Amended by Board of Directors on April 26, 2019
BYLAWS
OF
USF HEALTH PROFESSIONS CONFERENCING CORPORATION

Table of Contents

Page
ARTICLE 1 NAME..........................................................1
ARTICLE 2 MEMBERS.......................................................1
ARTICLE 3 BOARD OF DIRECTORS.................................1
  SECTION 3.1 General Powers .......................................1
  SECTION 3.2 Reserved Powers .....................................1
  SECTION 3.3 Number .................................................2
  SECTION 3.4 Appointment of Directors and Tenure ..............2
  SECTION 3.5 Removal of Directors ................................2
  SECTION 3.6 Conflicts and Duality of Interest .................2
  SECTION 3.7 Conflict of Interest Policy .........................2
  SECTION 3.8 Directors’ Meetings .................................2
ARTICLE 4 OFFICERS .....................................................3
  SECTION 4.1 Officers ................................................3
  SECTION 4.2 Appointment and Term of Office ..................4
  SECTION 4.3 Removal .................................................4
  SECTION 4.4 Vacancies ..............................................4
ARTICLE 5 COMMITTEES ..................................................4
  SECTION 5.1 Creation of Committees ..............................4
  SECTION 5.2 Executive Committee ...............................4
  SECTION 5.3 Other Committees ....................................5
  SECTION 5.4 Meetings of Committees ............................5
  SECTION 5.5 Vacancies on Committees ..........................5
  SECTION 5.6 Minutes of Committees .............................5
ARTICLE 6 INDEMNIFICATION .........................................5
  SECTION 6.1 Indemnification .......................................5
ARTICLE 7 AMENDMENT ...............................................5
ARTICLE 8 QUARTERLY EXPENDITURE PLANS ....................6
ARTICLE 9 FISCAL YEAR AND FINANCIAL AUDITS ..............6
  SECTION 9.1 Fiscal Year ............................................6
  SECTION 9.2 Financial Audits .....................................6
ARTICLE 10 EMPLOYEES ...............................................6
ARTICLE 11 PARLIAMENTARY RULES .............................7
BYLAWS
OF
USF HEALTH PROFESSIONS CONFERENCING CORPORATION

ARTICLE 1
NAME

The name of the Corporation shall be USF Health Professions Conferencing Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
MEMBERS

The Corporation’s sole member shall be the University of South Florida Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University of South Florida, herein referred to as "Member."

ARTICLE 3
BOARD OF DIRECTORS

SECTION 3.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regard to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 3.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;
(b) To control the use of the University name by this Corporation;
(c) To monitor compliance of this Corporation with federal and state laws;
(d) To recommend to the Board of Directors an annual budget of this Corporation; and
(e) To review and approve quarterly expenditure plans of this Corporation.

SECTION 3.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 3.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(1) One director shall be selected and appointed by the Chairperson of the University’s Board of Trustees;

(2) One director shall be either the President of the University or the designee of the President of the University, pursuant to Florida Statutes Section 1004.28(3);

(3) Up to seven directors appointed by the University Senior Vice President for USF Health.

Terms of office of the members of the Board of Directors shall be four years in length. Members are eligible for reappointment. If a director is appointed to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced. Except as set forth in 3.4(1) and 3.4(2) above, all other directors shall be approved by the University’s Board of Trustees.

SECTION 3.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Board of Directors or its Chairperson or to the Corporation. The appointees of each person may be removed as a Director, without cause, by the appointing person.

SECTION 3.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 3.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 3.8 Directors’ Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida at 3:00 p.m. on the second Tuesday of November of each year, or on such other date as the Board of Directors shall designate. Regular meetings of the
Board of Directors may be held, with or without notice, at such time and place as from time to time shall be determined by the Chairperson of the Board or by the Executive Director. Special meetings of the Board of Directors may be called by the Chairperson of the Board or the Executive Director or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice of the time and place of special meetings of the Board of Directors shall be given to each director either by personal delivery or by mail, facsimile, telegram or email at least three days before the meeting.

Members of the Board may participate in meetings of the Board by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from time to time until a quorum shall be present for the transaction of business.

ARTICLE 4
OFFICERS

SECTION 4.1 Officers. The officers of this Corporation shall be a Chairperson, an Executive Director, a Secretary-Treasurer and such other officers as may be determined by the Board of Directors. With the exception of the Executive Director and the Secretary-Treasurer, only members of the Board of Directors of the Corporation may be appointed as an officer of the Corporation pursuant to this Article 4. All officers shall have such authority and perform such duties as described below:

(1) Chairperson. The Chairperson shall preside at all meetings of the Board of Directors and shall do and perform such other duties as may be assigned by the Board of Directors.

(2) Executive Director. The Executive Director shall be responsible for the general, day-to-day management of the affairs of the Corporation. The Executive Director shall be responsible for the maintenance and management of the Corporation's activities and personnel and will have such authority and responsibility as may be prescribed by resolution of the Board of Directors.

(3) Secretary-Treasurer. The Secretary-Treasurer shall keep full and accurate minutes for all meetings of the Board of Directors and the Executive Committee, shall transmit all notices required by these Bylaws as may be amended and may sign documents with the Executive Director in the name of the Corporation. The Secretary-Treasurer shall have charge of all official records of the Corporation that shall be at all reasonable times open to examination.
of any director, and shall in general perform all duties incident to management of the office of Secretary-Treasurer for the Board of Directors. The Secretary-Treasurer shall be a member of the Finance Committee, if any, of the Corporation, shall present the financial statements of the Corporation to the Board of Directors at each regular meeting of the Board of Directors and at such other times as the Board of Directors may determine. The Secretary-Treasurer shall ascertain that a full and accurate account is made of all monies received and paid out on accounts administered by the Corporation.

SECTION 4.2 Election, Appointment and Term of Office. The Chairperson shall be elected by the Board of Directors at the organizational and annual meetings of the Board. The Executive Director and the Secretary-Treasurer shall be appointed by the University Senior Vice President for USF Health. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director and the Secretary-Treasurer shall hold office until his or her successor shall have been appointed or until his or her death, resignation or removal from office and each of the other officers shall serve terms of one year, each commencing immediately following their election or appointment.

SECTION 4.3 Removal. Any officer may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served. The Secretary-Treasurer and the Executive Director may be removed with or without cause by the University Senior Vice President for USF Health.

SECTION 4.4 Vacancies. A vacancy in any office, other than Executive Director and the Secretary-Treasurer, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director or Secretary-Treasurer shall be filled by the University Senior Vice President for USF Health.

ARTICLE 5 COMMITTEES

SECTION 5.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.

SECTION 5.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Director appointed by the Chair of the Board of Trustees and the President of the University (or the designee of the President of the University) shall also serve as members of the Executive Committee in accordance with Florida Statutes Section 1004.28(3).
SECTION 5.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 5.4 Meetings of Committees. Regular meetings of the Executive Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days’ notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such committee, given either personally or by mail, facsimile, telegram or email.

SECTION 5.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement.

SECTION 5.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 6
INDEMNIFICATION

SECTION 6.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE 7
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.
ARTICLE 8
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

(a) capital projects, including land acquisition, construction, renovation or repair;  
(b) compensation and benefits to University employees and employees of the Corporation; and  
(c) other major commitments of the resources of this Corporation.

ARTICLE 9
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 9.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 9.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 11.45, Florida Statutes, as may be amended or supplemented. The Corporation shall submit the annual audit report to the President of the University for transmittal to the University Board of Trustees and the Auditor General within nine months after the end of the fiscal year in accordance with Florida Statutes Section 1004.28(5). In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exception (form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and the State Board of Education and/or the Board of Governors, as required by applicable laws of the State of Florida.

ARTICLE 10
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the State of Florida or an employee of the University by virtue of his or her employment by the
Corporation. The Corporation shall provide equal employment opportunities to all persons regardless of race, color, religion, gender, age or natural origin.

ARTICLE 11
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the meetings of the Board of Directors, unless otherwise provided in these bylaws.
BYLAWS

OF

USF FINANCING CORPORATION

Effective March 10, 2005
Revised April 25, 2005
Revised November 28, 2005
Draft Revision April 30, 2019
# BYLAWS
## OF
## USF FINANCING CORPORATION

### Table of Contents

<table>
<thead>
<tr>
<th>Article</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NAME</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>PURPOSES</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>POWERS</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>BOARD OF DIRECTORS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.1 General Powers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.2 Reserved Powers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.3 Number</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.4 Appointment of Directors and Tenure</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.5 Removal of Directors</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.6 Conflicts and Duality of Interest</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.7 Conflict of Interest Policy</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.8 Directors' Meetings</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>OFFICERS</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.1 Officers</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.2 Appointment and Term of Office</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.3 Removal</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.4 Vacancies</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>COMMITTEES</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.1 Creation of Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.2 Executive Committee</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.3 Other Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.4 Meetings of Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.5 Vacancies on Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.6 Minutes of Committees</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>INDEMNIFICATION</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 7.1 Indemnification</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>AMENDMENT</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>QUARTERLY EXPENDITURE PLANS</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>FISCAL YEAR AND FINANCIAL AUDITS</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>SECTION 10.1 Fiscal Year</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>SECTION 10.2 Financial Audits</td>
<td>8</td>
</tr>
</tbody>
</table>
ARTICLE 11 EMPLOYEES ........................................................................................................ 9
ARTICLE 12 PARLIAMENTARY RULES ................................................................................. 9
ARTICLE 13 DISSOLUTION ..................................................................................................... 9
BYLAWS
OF
USF FINANCING CORPORATION

ARTICLE 1
NAME

The name of the Corporation shall be USF Financing Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
PURPOSES

The specific purposes for which this Corporation is organized are:

(a) To exist and operate solely for scientific, educational, religious and charitable purposes within the meaning of Section 501 (c)(3) of the Internal Revenue Code of 1986, as amended, (the "Code") and no part of the income or assets of this Corporation shall be distributed to, nor inure to the benefit of, any individual;

(b) To operate without regard to race, age, religion, sex or national origin;

(c) To be organized and operated solely as a direct-support organization for the University of South Florida (the "University"), as defined in Section 1004.28 of the Florida Statutes, as may be amended or supplemented;

(d) To receive, hold, invest and administer property and to make expenditures to or for the exclusive benefit of the University, a member of the state university system of the State of Florida by assisting in acquiring facilities and constructing facilities on the University's campuses and, in general, by furthering its educational mission;

(e) To carry out its functions such that no substantial part of the Corporation's activities shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in or intervene in (including the publishing or distribution of statements) any political campaign on behalf of (or in opposition to) any candidate for public office;

(f) To operate, participate in or manage any other programs or activities that are not prohibited by law and that do not conflict with the provisions of Section 501(c)(3) of the Code; and

(g) In order to further the purposes described above, to exercise all the powers
enumerated in Section 617, Florida Statutes, as it now exists or is subsequently amended or superseded, and to do and perform such acts and to have such powers as shall be desirable and necessary in furtherance of any of the powers herein above enumerated which are not in derogation of the laws of the State of Florida.

(h) The purposes for which this corporation is organized shall be limited to those which are strictly charitable. In no event shall this corporation engage in any activity which would be contrary to the purposes and activities: (1) permitted to be engaged in by any organization the activities of which are exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1986; or (2) of a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

(i) The Corporation shall not be operated for the primary purpose of carrying on an unrelated trade or business as defined in Section 513 of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

(j) The Corporation is organized to serve public interests. Accordingly, it shall not be operated for the benefit of private interests.

Provided, further, that: (i) no part of the net earnings of the Corporation shall inure to the benefit of any member of the Corporation or other individual; (ii) the income of the Corporation for each taxable year must be distributed at such time and in such manner so as not to subject the corporation to the tax imposed by Section 4942 of the Code; (iii) the Corporation shall not engage in any act of self dealing (as defined in Section 4941(d) of the Code), retain any excess business holdings (as defined in Section 4943(c) of the Code), make any investment in such a manner so as to subject the Corporation to taxation under Section 4944 of the Code, or make any taxable expenditure (as defined in Section 4945(d) of the Code), and (iv) the Corporation shall not conduct its business or affairs in such a manner as to discriminate against any person on the basis of race, color, religion, sex, or age. It is the specific intention of the incorporator that the purposes and application of the Corporation be as broad as permitted by Section 617.0301 of the Florida Not For Profit Corporation Act, but only to the extent that the Corporation qualifies as a tax exempt organization within the meaning of Section 501(c)(3) and Section 170 of the Code.

**ARTICLE 3**

**POWERS**

The Corporation shall have and exercise all powers of a corporation not for profit as the same now exist or may hereinafter exist under the laws of the State of Florida. No part of the assets, income or profits of the Corporation shall be distributable to, or inure to the benefit of, its members, directors or officers or any private individual, except that the Corporation shall be authorized and empowered to pay reasonable compensation to its employees for services
rendered and to make payments and distributions in the furtherance of the purposes set forth herein. Notwithstanding any other provision hereof, in no event shall the Corporation have or exercise any power which would cause it not to qualify as a tax-exempt organization under Section 501(c)(3) or Section 170 of the Internal Revenue Code of 1986 as amended and the applicable rules and regulations thereunder; the Corporation shall not conduct or carry on any activities not permitted to be conducted or carried on by an organization exempt from federal income taxation under Section 501(c)(3) of the Code or by an organization, contributions to which are deductible under Section 170(c)(2) of the Code.

Upon certification as a direct support organization by the University's Board of Trustees (the 'Board of Trustees’), the Corporation shall be authorized to use the property, facilities and personal services of the University, to receive, hold, invest or administer assets or property and to make expenditures for the benefit of the University. The Corporation further shall be authorized to issue revenue bonds, certificates of participation or other forms of indebtedness upon approval of the Board of Trustees and in accordance with the applicable laws of the State of Florida, and to enter into agreements to finance, design and construct, lease, lease-purchase, purchase, or operate facilities necessary and desirable to serve the needs and purposes of the University.

ARTICLE 4
BOARD OF DIRECTORS

SECTION 4.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regards to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 4.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;
(b) To control the use of the University name by this Corporation;
(c) To monitor compliance of this Corporation with federal and state laws;
(d) To recommend to the Board of Directors an annual budget of this Corporation; and
(e) To review and approve quarterly expenditure plans of this Corporation.
SECTION 4.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 4.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(a) One director shall be appointed by the Chair of the University Board of Trustees;

(b) One director shall be the President of the University or his or her designee;

(c) One director shall be the Chief Financial Officer of the University or his or her designee;

(d) Two directors, one from the Boards of Directors of each of two of the University's Regional Campuses shall be appointed by the then current members of the Board of Directors; and

(e) Up to two additional directors, once appointed and approved by the University Board of Trustees, may be elected at the annual meeting of the Board of Directors by the then current members of the Board of Directors; and

(e) Except as set forth in (a) and (b) above, the University Board of Trustees shall approve all appointments to the Board of Directors.

Terms of office of the members of the Board of Directors shall be four years in length. A director shall not be eligible to serve more than two consecutive terms. A director who has served two terms consecutively may be re-appointed or re-elected to the Board of Directors after the expiration of one-year following the end of his or her last previous term, and upon approval by the University Board of Trustees and will have the status of a new member. Notwithstanding the foregoing, the President of the University or his or her designee and the director appointed by the President of the University pursuant to Section 3.4(3) above, shall serve until the earlier of the President's resignation, removal from office or death. A vacancy on the Board of Directors with respect to elected members may be filled by a vote of the remaining directors at their sole and absolute discretion, upon approval by the University Board of Trustees; however, the Chair of the Board of Trustees shall designate replacements for the directors appointed by him or her. If a director is appointed and approved to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced.

SECTION 4.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Chairperson. Any director, other than the director appointed by the Chair of the Board of Trustees or the President of the University or his or her designee, may be removed from the Board of Directors at any time with or without cause by a two-thirds vote of
SECTION 4.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 4.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 4.8 Directors' Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida at 3:00 PM on the 1st Tuesday of November of each year, or on such other date as the Board of Directors shall agree. Regular meetings of the Board of Directors may be held, with or without notice, at such time and place as from time to time shall be determined by the Chairperson of the Board. Special meetings of the Board of Directors may be called by the Chairperson of the Board or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice of the time and place of special meetings of the Board of Directors shall be given to each director either by personal delivery or by mail, facsimile, telegram or email at least three (3) days before the meeting. Members of the Board may participate in meetings of the Board by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from time to time until a quorum shall be present for the transaction of business.

ARTICLE 5
OFFICERS

SECTION 5.1 Officers. The officers of this Corporation shall be a Chairperson, an Executive Director, a Secretary, a Treasurer and such other officers as may be determined by the Board of Directors. All officers shall have such authority and perform such duties as described below:
(a) Chairperson. The Chairperson shall preside at all meetings of the Board of Directors and shall do and perform such other duties as may be assigned by the Board of Directors.

(b) Executive Director. The Executive Director shall be responsible for the general, day-to-day management of the affairs of the Corporation. He or she shall exercise such authority to accept gifts, collect revenues and make expenditures as he or she deems necessary. The Executive Director is authorized to direct the sale of real estate of the Corporation and is also authorized to execute, in the name of the Corporation, with the Secretary attesting, all certificates, contracts, leases, deeds, notes and other documents or legal instruments. He or she shall be responsible for the maintenance and management of the Corporation's activities and personnel.

(c) Secretary. The Secretary shall keep full and accurate minutes for all meetings of the Board of Directors and the Executive Committee. He or she shall transmit all notices required by these Bylaws as may be amended. He or she may sign documents with the Executive Director in the name of the Corporation. The Secretary shall have charge of all official records of the Corporation that shall be at all reasonable times open to examination of any director, and shall in general perform all duties incident to management of the office of Secretary for the Board of Directors.

(d) Treasurer. The Treasurer shall be a member of the Finance Committee, if any, of the Corporation. He or she shall present the financial statements of the Corporation to the Board of Directors at each regular meeting of the Board of Directors and at such other times as the Board of Directors may determine. He or she shall ascertain that a full and accurate account is made of all monies received and paid out on accounts administered by the Corporation, and shall in general perform all duties incident to management of the Office of Treasurer for the Board of Directors.

SECTION 5.2 Appointment and Term of Office. The Executive Director of the Corporation shall be appointed by the President of the University. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director shall hold office until his successor shall have been appointed or until his death, resignation or removal from office and each of the other officers shall serve terms of two years, each commencing immediately following their election or appointment.

SECTION 5.3 Removal. Any officer, other than the Executive Director, may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served.

SECTION 5.4 Vacancies. A vacancy in any office, other than Executive Director, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director shall be filled by the President of the University.
ARTICLE 6
COMMITTEES

SECTION 6.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.

SECTION 6.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Chair of the Board of Trustees of the University shall appoint a representative to the Executive Committee and the President of the University, or his or her designee, shall also serve as a member of the Executive Committee.

SECTION 6.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 6.4 Meetings of Committees. Regular meetings of the Executive Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days’ notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such committee, given either personally or by mail, facsimile, telegram or email.

SECTION 6.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement and if the vacancy is with respect to the designee of the President of the University then the President shall appoint a replacement.

SECTION 6.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 7
INDEMNIFICATION

SECTION 7.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any directors,
officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE 8
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.

ARTICLE 9
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

(a) capital projects, including land acquisition, construction, renovation or repair;

(b) compensation and benefits to University employees and employees of the Corporation; and

(c) other major commitments of the resources of this Corporation.

ARTICLE 10
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 10.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 10.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 11.45, Florida Statutes, as may be amended or supplemented. The Corporation shall submit the annual audit report to the President of the University within nine months after the end of the fiscal year. In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exception (form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and
the State Board of Education and/or the Board of Governors, as required by applicable laws of
the State of Florida.

ARTICLE 11
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the
State of Florida or an employee of the University by virtue of his or her employment by the
Corporation. The Corporation shall provide equal employment opportunities to all persons
regardless of race, color, religion, gender, age or natural origin.

ARTICLE 12
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the
meetings of the Board of Directors, unless otherwise provided in these bylaws.

ARTICLE 13
DISSOLUTION

In the event of dissolution of the Corporation, the winding up of its affairs, the
decertification of the Corporation as a direct support organization by the Board of Trustees of the
University, or other liquidation of its assets, all assets remaining after the payment of the
Corporation's debts shall be conveyed or distributed at the direction of the then Directors of the
Corporation to the Board of Trustees of the University, or if such organization has ceased to
exist, to the University, or if such organization has ceased to exist, to such other organization or
organizations that are exempt from federal income tax under Section 501(c)(3) of the Code as
directed by the Board of Governors of the State of Florida. No part of the assets or net earnings,
current or accumulated, of the Corporation shall inure to the benefit of a private individual or
entity.
BYLAWS

OF

USF FINANCING CORPORATION

Effective March 10, 2005
Revised April 25, 2005
Revised November 28, 2005
Draft Revision April 30, 2019
# BYLAWS
## OF
USF FINANCING CORPORATION

## Table of Contents

<table>
<thead>
<tr>
<th>Article</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTICLE 1 NAME</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ARTICLE 2 PURPOSES</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ARTICLE 3 POWERS</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ARTICLE 4 BOARD OF DIRECTORS</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.1 General Powers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.2 Reserved Powers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.3 Number</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.4 Appointment of Directors and Tenure</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.5 Removal of Directors</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.6 Conflicts and Duality of Interest</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.7 Conflict of Interest Policy</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 4.8 Directors' Meetings</td>
<td>5</td>
</tr>
<tr>
<td>ARTICLE 5 OFFICERS</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.1 Officers</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.2 Appointment and Term of Office</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.3 Removal</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 5.4 Vacancies</td>
<td>6</td>
</tr>
<tr>
<td>ARTICLE 6 COMMITTEES</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.1 Creation of Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.2 Executive Committee</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.3 Other Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.4 Meetings of Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.5 Vacancies on Committees</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 6.6 Minutes of Committees</td>
<td>7</td>
</tr>
<tr>
<td>ARTICLE 7 INDEMNIFICATION</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>SECTION 7.1 Indemnification</td>
<td>7</td>
</tr>
<tr>
<td>ARTICLE 8 AMENDMENT</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>ARTICLE 9 QUARTERLY EXPENDITURE PLANS</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>ARTICLE 10 FISCAL YEAR AND FINANCIAL AUDITS</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>SECTION 10.1 Fiscal Year</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>SECTION 10.2 Financial Audits</td>
<td>8</td>
</tr>
</tbody>
</table>
BYLAWS
OF
USF FINANCING CORPORATION

ARTICLE 1
NAME

The name of the Corporation shall be USF Financing Corporation, a Florida not for profit corporation (the "Corporation"). The Corporation shall maintain a registered office in the State of Florida and a registered agent at such office and may have other offices within or without the state.

ARTICLE 2
PURPOSES

The specific purposes for which this Corporation is organized are:

(a) To exist and operate solely for scientific, educational, religious and charitable purposes within the meaning of Section 501 (c)(3) of the Internal Revenue Code of 1986, as amended, (the "Code") and no part of the income or assets of this Corporation shall be distributed to, nor inure to the benefit of, any individual;

(b) To operate without regard to race, age, religion, sex or national origin;

(c) To be organized and operated solely as a direct-support organization for the University of South Florida (the "University"), as defined in Section 1004.28 of the Florida Statutes, as may be amended or supplemented;

(d) To receive, hold, invest and administer property and to make expenditures to or for the exclusive benefit of the University, a member of the state university system of the State of Florida by assisting in acquiring facilities and constructing facilities on the University's campuses and, in general, by furthering its educational mission;

(e) To carry out its functions such that no substantial part of the Corporation's activities shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in or intervene in (including the publishing or distribution of statements) any political campaign on behalf of (or in opposition to) any candidate for public office;

(f) To operate, participate in or manage any other programs or activities that are not prohibited by law and that do not conflict with the provisions of Section 501(c)(3) of the Code; and

(g) In order to further the purposes described above, to exercise all the powers
enumerated in Section 617, Florida Statutes, as it now exists or is subsequently amended or superseded, and to do and perform such acts and to have such powers as shall be desirable and necessary in furtherance of any of the powers herein above enumerated which are not in derogation of the laws of the State of Florida.

  (h) The purposes for which this corporation is organized shall be limited to those which are strictly charitable. In no event shall this corporation engage in any activity which would be contrary to the purposes and activities: (1) permitted to be engaged in by any organization the activities of which are exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1986; or (2) of a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

  (i) The Corporation shall not be operated for the primary purpose of carrying on an unrelated trade or business as defined in Section 513 of the Internal Revenue Code of 1986, as hereafter amended, and the applicable rules and regulations thereunder.

  (j) The Corporation is organized to serve public interests. Accordingly, it shall not be operated for the benefit of private interests.

Provided, further, that: (i) no part of the net earnings of the Corporation shall inure to the benefit of any member of the Corporation or other individual; (ii) the income of the Corporation for each taxable year must be distributed at such time and in such manner so as not to subject the corporation to the tax imposed by Section 4942 of the Code; (iii) the Corporation shall not engage in any act of self dealing (as defined in Section 4941(d) of the Code), retain any excess business holdings (as defined in Section 4943(c) of the Code), make any investment in such a manner so as to subject the Corporation to taxation under Section 4944 of the Code, or make any taxable expenditure (as defined in Section 4945(d) of the Code), and (iv) the Corporation shall not conduct its business or affairs in such a manner as to discriminate against any person on the basis of race, color, religion, sex, or age. It is the specific intention of the incorporator that the purposes and application of the Corporation be as broad as permitted by Section 617.0301 of the Florida Not For Profit Corporation Act, but only to the extent that the Corporation qualifies as a tax exempt organization within the meaning of Section 501(c)(3) and Section 170 of the Code.

ARTICLE 3
POWERS

The Corporation shall have and exercise all powers of a corporation not for profit as the same now exist or may hereinafter exist under the laws of the State of Florida. No part of the assets, income or profits of the Corporation shall be distributable to, or inure to the benefit of, its members, directors or officers or any private individual, except that the Corporation shall be authorized and empowered to pay reasonable compensation to its employees for services
rendered and to make payments and distributions in the furtherance of the purposes set forth herein. Notwithstanding any other provision hereof, in no event shall the Corporation have or exercise any power which would cause it not to qualify as a tax-exempt organization under Section 501(c)(3) or Section 170 of the Internal Revenue Code of 1986 as amended and the applicable rules and regulations thereunder; the Corporation shall not conduct or carry on any activities not permitted to be conducted or carried on by an organization exempt from federal income taxation under Section 501(c)(3) of the Code or by an organization, contributions to which are deductible under Section 170(c)(2) of the Code.

Upon certification as a direct support organization by the University's Board of Trustees (the 'Board of Trustees"), the Corporation shall be authorized to use the property, facilities and personal services of the University, to receive, hold, invest or administer assets or property and to make expenditures for the benefit of the University. The Corporation further shall be authorized to issue revenue bonds, certificates of participation or other forms of indebtedness upon approval of the Board of Trustees and in accordance with the applicable laws of the State of Florida, and to enter into agreements to finance, design and construct, lease, lease-purchase, purchase, or operate facilities necessary and desirable to serve the needs and purposes of the University.

ARTICLE 4
BOARD OF DIRECTORS

SECTION 4.1 General Powers. The business, property, affairs and funds of the Corporation shall be managed, supervised and controlled by its Board of Directors (the "Board of Directors") subject only to applicable law and the limitations contained in the Articles of Incorporation of the Corporation (the "Articles of Incorporation") and these Bylaws and the powers and duties reserved to the University of South Florida Board of Trustees (the "Board of Trustees") and the President of the University of South Florida (the "University") or his or her designee in regards to this Corporation. The Board of Directors shall have the authority to adopt policy for the Corporation, consistent with the Articles of Incorporation and these Bylaws.

SECTION 4.2 Reserved Powers. The President of the University or his or her designee shall have the following specific powers and duties with regard to this Corporation:

(a) To monitor and control the use of the University's resources by this Corporation;
(b) To control the use of the University name by this Corporation;
(c) To monitor compliance of this Corporation with federal and state laws;
(d) To recommend to the Board of Directors an annual budget of this Corporation; and
(e) To review and approve quarterly expenditure plans of this Corporation.
SECTION 4.3 Number. The Board of Directors shall consist of at least five but no more than seven directors.

SECTION 4.4 Appointment of Directors and Tenure. The directors of the Corporation shall be appointed in the following manner:

(a) One director shall be appointed by the Chair of the University Board of Trustees;

(b) One director shall be the President of the University or his or her designee;

(c) One director shall be the Chief Financial Officer of the University or his or her designee;

(d) Up to four additional directors, once appointed and approved by the University Board of Trustees, may be elected at the annual meeting of the Board of Directors by the then current members of the Board of Directors; and

(e) Except as set forth in (a) and (b) above, the University Board of Trustees shall approve all appointments to the Board of Directors.

Terms of office of the members of the Board of Directors shall be four years in length. A director shall not be eligible to serve more than two consecutive terms. A director who has served two terms consecutively may be re-elected to the Board of Directors after the expiration of one-year following the end of his or her last previous term, and upon approval by the University Board of Trustees and will have the status of a new member. Notwithstanding the foregoing, the President of the University or his or her designee shall serve until the earlier of the President's resignation, removal from office or death. A vacancy on the Board of Directors with respect to elected members may be filled by a vote of the remaining directors at their sole and absolute discretion, upon approval by the University Board of Trustees; however, the Chair of the Board of Trustees shall designate replacements for the directors appointed by him or her. If a director is appointed and approved to fill a vacancy before the end of the term of their predecessor, such director shall serve for the remainder of the term of the director being replaced.

SECTION 4.5 Removal of Directors. A director may resign at any time by submitting a written resignation to the Chairperson. Any director, other than the director appointed by the Chair of the Board of Trustees or the President of the University or his or her designee, may be removed from the Board of Directors at any time with or without cause by a two-thirds vote of the Board of Directors.

SECTION 4.6 Conflicts and Duality of Interest. No contract or other transaction between the Corporation and one or more of its directors or any other corporation, firm, association or entity in which one or more of its directors are directors or officers or are
financially interested is either void or voidable because of such relationship or interest, because such director or directors are present at the meeting of the Board of Directors or a committee thereof that authorized, approved or ratified such contract or transaction, or because his or their votes are counted for such purpose, if the contract or transaction is approved in compliance with the provisions of Section 617.0832 of the Florida Not For Profit Corporation Act, or any successor provision.

SECTION 4.7 Conflict of Interest Policy. The Board of Directors shall adopt and keep in full force and effect a substantial conflict of interest policy for its directors and principal officers in accordance with rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

SECTION 4.8 Directors' Meetings. An annual meeting of the Board of Directors shall be held within the State of Florida at 3:00 PM on the 1st Tuesday of November of each year, or on such other date as the Board of Directors shall agree. Regular meetings of the Board of Directors may be held, with or without notice, at such time and place as from time to time shall be determined by the Chairperson of the Board. Special meetings of the Board of Directors may be called by the Chairperson of the Board or Secretary of the Corporation or any two directors. Unless waived as provided by statute, written notice of the time and place of special meetings of the Board of Directors shall be given to each director either by personal delivery or by mail, facsimile, telegram or email at least three (3) days before the meeting. Members of the Board may participate in meetings of the Board by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

At all meetings of the Board of Directors, the presence of a majority of the total number of directors shall be necessary and sufficient to constitute a quorum for the transaction of business. Unless otherwise required by the Articles of Incorporation, these Bylaws or Florida Statutes, the act of a majority of the directors present shall be the act of the Board of Directors. In the absence of a quorum, a majority of the directors present may adjourn the meeting from time to time until a quorum shall be present for the transaction of business.

ARTICLE 5
OFFICERS

SECTION 5.1 Officers. The officers of this Corporation shall be a Chairperson, an Executive Director, a Secretary, a Treasurer and such other officers as may be determined by the Board of Directors. All officers shall have such authority and perform such duties as described below:

(a) Chairperson. The Chairperson shall preside at all meetings of the Board of Directors and shall do and perform such other duties as may be assigned by the Board of Directors.

(b) Executive Director. The Executive Director shall be responsible for the general,
day-to-day management of the affairs of the Corporation. He or she shall exercise such authority to accept gifts, collect revenues and make expenditures as he or she deems necessary. The Executive Director is authorized to direct the sale of real estate of the Corporation and is also authorized to execute, in the name of the Corporation, with the Secretary attesting, all certificates, contracts, leases, deeds, notes and other documents or legal instruments. He or she shall be responsible for the maintenance and management of the Corporation's activities and personnel.

(c) Secretary. The Secretary shall keep full and accurate minutes for all meetings of the Board of Directors and the Executive Committee. He or she shall transmit all notices required by these Bylaws as may be amended. He or she may sign documents with the Executive Director in the name of the Corporation. The Secretary shall have charge of all official records of the Corporation that shall be at all reasonable times open to examination of any director, and shall in general perform all duties incident to management of the office of Secretary for the Board of Directors.

(d) Treasurer. The Treasurer shall be a member of the Finance Committee, if any, of the Corporation. He or she shall present the financial statements of the Corporation to the Board of Directors at each regular meeting of the Board of Directors and at such other times as the Board of Directors may determine. He or she shall ascertain that a full and accurate account is made of all monies received and paid out on accounts administered by the Corporation, and shall in general perform all duties incident to management of the Office of Treasurer for the Board of Directors.

SECTION 5.2 Appointment and Term of Office. The Executive Director of the Corporation shall be appointed by the President of the University. Other officers of the Corporation shall be elected as necessary by the Board of Directors at the annual meeting. The Executive Director shall hold office until his successor shall have been appointed or until his death, resignation or removal from office and each of the other officers shall serve terms of two years, each commencing immediately following their election or appointment.

SECTION 5.3 Removal. Any officer, other than the Executive Director, may be removed with or without cause by the Board of Directors whenever in its judgment the best interests of the Corporation would be served.

SECTION 5.4 Vacancies. A vacancy in any office, other than Executive Director, because of death, resignation, removal, disqualification or otherwise may be filled by the Board of Directors. A vacancy in the office of Executive Director shall be filled by the President of the University.

ARTICLE 6
COMMITTEES

SECTION 6.1 Creation of Committees. The Board of Directors may, by resolution passed by a majority of the whole Board, designate an Executive Committee and one or more other committees, each to consist of one or more of the directors of the Corporation.
SECTION 6.2 Executive Committee. The Executive Committee, if there shall be one, shall consult with and advise the officers of the Corporation in the management of its business and shall have and may exercise to the extent provided in the resolution of the Board of Directors creating such Executive Committee such powers of the Board of Directors as can be lawfully delegated by the Board. The Chair of the Board of Trustees of the University shall appoint a representative to the Executive Committee and the President of the University, or his or her designee, shall also serve as a member of the Executive Committee.

SECTION 6.3 Other Committees. Such other committees shall have such functions and may exercise the powers of the Board of Directors as can be lawfully delegated and to the extent provided in the resolution or resolutions creating such committee or committees.

SECTION 6.4 Meetings of Committees. Regular meetings of the Executive Committee and other committees may be held without notice at such time and at such place as shall from time to time be determined by the Executive Committee or such other committees, and special meetings of the Executive Committee or such other committees may be called by any member thereof upon two days' notice to each of the other members of such committee, or on such shorter notice as may be agreed to in writing by each of the other members of such committee, given either personally or by mail, facsimile, telegram or email.

SECTION 6.5 Vacancies on Committees. Vacancies on the Executive Committee or on such other committees shall be filled by the Board of Directors then in office at any regular or special meeting except that if the vacancy on the Executive Committee is with respect to the director appointed by the Chair of the Board of Trustees, then the Chair of the Board of Trustees shall designate a replacement and if the vacancy is with respect to the designee of the President of the University then the President shall appoint a replacement.

SECTION 6.6 Minutes of Committees. The Executive Committee, if there shall be one, and such other committees shall keep regular minutes of their proceedings and report the same to the Board of Directors when required.

ARTICLE 7
INDEMNIFICATION

SECTION 7.1 Indemnification. The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Section 6.1 shall not be exclusive of any other right that any directors, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Section 6.1 shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.
ARTICLE 8
AMENDMENT

These Bylaws may be amended by the vote of a majority of the Board of Directors of this Corporation, but only if confirmed by the Board of Trustees of the University after submission to them by the President of the University.

ARTICLE 9
QUARTERLY EXPENDITURE PLANS

This Corporation shall prepare and submit to the President of the University or his or her designee, no later than the first day of each quarter of the Corporation's fiscal year, a quarterly expenditure plan that delineates planned actions that would cause a commitment of University resources or represent a significant commitment of the resources of this Corporation, including:

   (a) capital projects, including land acquisition, construction, renovation or repair;

   (b) compensation and benefits to University employees and employees of the Corporation; and

   (c) other major commitments of the resources of this Corporation.

ARTICLE 10
FISCAL YEAR AND FINANCIAL AUDITS

SECTION 10.1 Fiscal Year. The fiscal year of the Corporation shall be the period ending on June 30 of each year.

SECTION 10.2 Financial Audits. After the close of each fiscal year, the Corporation shall cause a financial audit of its accounts and records to be conducted by an independent certified public accountant pursuant to Section 1004.28, Florida Statutes, as may be amended or supplemented, and in accordance with the rules adopted by the Auditor General pursuant to Section 11.45, Florida Statutes, as may be amended or supplemented. The Corporation shall submit the annual audit report to the President of the University within nine months after the end of the fiscal year. In addition, the Corporation shall provide a copy of its federal Application for Recognition of Exception (form 1023) and each year shall provide a copy of its Form 990, Return of Organization Exempt from Federal Income Tax, to the President of the University and the State Board of Education and/or the Board of Governors, as required by applicable laws of the State of Florida.
ARTICLE 11
EMPLOYEES

Any person employed by the Corporation shall not be considered an employee of the State of Florida or an employee of the University by virtue of his or her employment by the Corporation. The Corporation shall provide equal employment opportunities to all persons regardless of race, color, religion, gender, age or natural origin.

ARTICLE 12
PARLIAMENTARY RULES

The most recent edition of "Roberts Rules of Order" shall be followed in conducting the meetings of the Board of Directors, unless otherwise provided in these bylaws.

ARTICLE 13
DISSOLUTION

In the event of dissolution of the Corporation, the winding up of its affairs, the decertification of the Corporation as a direct support organization by the Board of Trustees of the University, or other liquidation of its assets, all assets remaining after the payment of the Corporation's debts shall be conveyed or distributed at the direction of the then Directors of the Corporation to the Board of Trustees of the University, or if such organization has ceased to exist, to the University, or if such organization has ceased to exist, to such other organization or organizations that are exempt from federal income tax under Section 501(c)(3) of the Code as directed by the Board of Governors of the State of Florida. No part of the assets or net earnings, current or accumulated, of the Corporation shall inure to the benefit of a private individual or entity.
BYLAWS

RESOLUTION

BE IT RESOLVED by the Board of the University of South Florida Foundation, Inc., that the Bylaws of the University of South Florida Foundation, Inc., are amended and restated to read as follows:

ARTICLE I
LOCATION, PURPOSE AND MEMBERSHIP

Section 1. Location.
The principal office of the University of South Florida Foundation, Inc. ("Foundation") will be located in Tampa, Florida, Hillsborough County.

Section 2. Purpose.
The Foundation is established pursuant to Section 1004.28 Florida Statutes, as a direct-support organization of the University of South Florida. The general nature of the Foundation is to provide philanthropic support; in the form of money and other forms of property and services to the University of South Florida System ("University System") and persons, associations and corporations associated therewith; to promote education and other related activities of the University System; and to encourage research, learning and dissemination of information. The Foundation is authorized to act as the fiduciary agent on behalf of the University System for the receipt, management, and distribution of all private gifts made to or for the benefit of the University System. The role of the Foundation Board specifically includes encouraging philanthropic support of university priorities; approval of policy; oversight of financial management; participation in long-range strategic planning; providing volunteer leadership for the University System's fundraising efforts; and serving in an advisory capacity to the University System President.
**Section 3. Members.**
The Members of the Foundation shall be the Foundation Board, comprised of the Voting Members, including Elected and Designated Members; and the Non-voting Members, including Campus Executive Officers, Emeritus Members and other individuals elected pursuant to Article II, Section 2(b). With the exception of the Voting Members described in Article II, Section 2 (a) (1) and (a) (6), all Members shall be approved by the USF Board of Trustees.

**ARTICLE II**
**FOUNDATION BOARD**

**Section 1. Governance.**
The Foundation shall be managed by and under the direction of the Foundation Board, and by officers and committees thereof, as powers may be delegated to such officers and committees by these Bylaws or by Resolution of the Foundation Board.

**Section 2. Composition.**
(a) Voting Members.
The Foundation Board shall be composed of at least twenty (20), but not more than fifty (50) Elected Members, one of whom shall be a full-time faculty member or a Dean of the University System. In addition, the following will serve as Designated Members of the Foundation:

1. President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes.
2. Provost and Executive Vice President of the University System.
3. Chief Operating Officer of the University System.
4. President of the University of South Florida Alumni Association.
5. President of the USF Bulls Club.
6. A person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.
Provided, however, that any person holding more than one of the above offices shall have only one vote as a Member of the Foundation Board.

(b) Non-Voting Members.

(1) The Campus Executive Officers of each Regional Campus or Institution of the University System;
(2) The Emeritus Members;
(3) Other individuals may serve as Non-voting Members. Such Members shall be nominated by majority vote of the Nominating and Board Development Committee and shall be elected by majority vote of the Foundation Board.

Section 3. Terms of Office.
(a) Elected Members.

With the exception of the faculty/dean representative, the term of office of all Elected Members shall be three (3) years. The term of office for the faculty/dean representative to the Foundation Board shall be one (1) year.

All Elected Members shall be eligible for re-election for successive terms if so nominated subject to the following term limits: Except as otherwise provided in Article IV, Section 1, a Member who has served three (3) consecutive three (3) year terms may only be re-elected after at least a one (1) year absence from the Foundation Board.

The term limits for an individual who is appointed to fill a vacancy shall be determined based upon the length remaining for the term they are appointed to serve; those appointed to fill a vacancy with a term remaining of less than two (2) years may be elected for up to three (3) additional consecutive three (3) year terms and those appointed to fill a vacancy with a term remaining of 2 years or more may be elected for up to two (2) additional consecutive three (3) year terms.
(b) **Designated Members.**
A Designated Member shall serve so long as he or she holds the office or the position which results in he or she being a Designated Member.

(c) **Emeritus Members.**
The Emeritus Members shall serve until their death, resignation or incapacity. Election as an Emeritus Member of the Foundation Board shall be based upon nomination by the Emeritus Society with reporting of the nominees to the Nominating and Board Development Committee and election by the Foundation Board. The duties of an Emeritus Member shall be specified in a Foundation Policy recommended by the Nominating and Board Development Committee and approved by the Foundation Board.

**Section 4. Election of Members.**
All Members, with the exception of Designated and Emeritus Members, shall be nominated and elected in the following manner:

(a) Not less than thirty (30) days prior to the Annual meeting of the Foundation, the Foundation's Secretary shall determine the total number of Members to be elected as provided in these Bylaws and shall notify the Chairperson of the Foundation Board and the Chairperson of the Nominating and Board Development Committee, in writing, of the number of Elected Members who are eligible for re-election and whose terms expire at the next annual meeting of the Foundation.

(b) Upon receipt of said notice, the Nominating and Board Development Committee shall nominate individuals to serve as Elected Members.

(c) At the annual meeting, the Foundation Board shall elect new Members from the nominations of the Nominating and Board Development Committee whose terms will commence at the first Foundation Board meeting following their election.

(d) Vacancies occurring during a term may be filled by the Chairperson of the Foundation Board of Trustees Regular Meeting - New Business - Consent Agenda
Board for the balance of the Member’s term with the approval of the Executive and Governance Committee or the Foundation Board.

(e) Nominations may be made by the Nominating and Board Development Committee for consideration by the Foundation Board at meetings other than the Annual Meeting; however, such nominations should be made only where there is an exceptional candidate that the Committee determines the Foundation Board should have the opportunity to consider for election outside of the regular nomination and election cycle. The Foundation Board may consider such nominations at any meeting of the Board.

Section 5. Meetings.

(a) Regular Meetings.
Regular meetings of the Foundation Board shall be held at least three (3) times per year. The Annual meeting of the Foundation Board shall be held in June, at a time, date and place set by the Chairperson and the CEO of the Foundation. At the annual meeting, the Foundation Board shall elect the Members and officers as provided in these Bylaws and shall transact such other business as may be brought before the Foundation Board. In the event that Members or officers are not elected at the Annual meeting, a special meeting of the Foundation Board may be called for that purpose.

(b) Special Meetings.
Special meetings of the Foundation Board may be called by the Chairperson of the Foundation, the President of the University System, the Foundation CEO or a majority of the total number of Voting Members. Such special meetings of the Foundation Board shall be at a time, date and place designated in the notice of meeting.

(c) Notice of Meetings.
At the Annual meeting, a proposed schedule of Foundation Board meetings for the next fiscal year shall be presented. Within thirty (30) days following the Annual meeting, the Secretary will send a calendar of meetings scheduled for the year to all Members. The Secretary shall give notice of the annual, regular and special meetings to each Member at least seven (7) days
before the meeting. Meeting notices may be sent by mail, facsimile, electronic mail or telephone. If mailed, the notice of the meeting shall be deemed to be given when deposited, postage paid, in the United States mail, addressed to the Member at his or her address as it appears on the records of the Foundation. The notice of any special meeting shall state the purpose thereof. Failure of any Member to receive notice duly given shall not affect the validity of any meeting or acts of the Foundation Board at such meeting. Any Member may waive the notice of any meeting of the Foundation Board before, at, or after such meeting.

(d) Action by Regular or Electronic Mail. Any action required to be taken at a meeting of the Foundation Board or a committee thereof, may be taken without a meeting if the following conditions are met:

1. Information in writing setting forth the action to be taken, the necessity for immediate action, the details and method for voting and responding, and a certain date for response is provided to all Members, or all members of the committee, as the case may be.
2. All reasonable attempts have been made to assure that Members, or members of the committee, as the case may be, have received such information.
3. Written consent is provided by a majority of the Members or of the members of the committee, as the case may be.
4. The action taken is filed in the minutes of the proceedings of the Board or committee.

Notice of actions to be taken without a meeting as provided herein, and written consent to such actions, may be handled by regular or electronic mail or facsimile to every Member or the Members of the particular committee involved.

Section 6. Quorum of Foundation Board. A quorum of the Foundation Board, for any regular meeting or any special meeting which meets all requirements as set forth in these Bylaws, shall consist of a majority of the voting Members. Once a quorum is established at a meeting, the vote of a majority of the Members present and voting at the time a vote is taken shall be sufficient to authorize action by the Foundation Board.
Section 7. Resignation or Removal.
A Member may resign at any time by giving written notice to the Foundation Board, the Chairperson of the Foundation, the CEO of the Foundation or the President of the University System. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Chairperson. The President of the University System or the Chairperson of the Foundation Board may remove from office any Member with or without cause. Such removal from the Board shall be communicated in writing.

ARTICLE III
COMMITTEES

Section 1. Composition and Quorum.
To assist in the management of the affairs of the Foundation, the following standing committees are established: Executive and Governance; Nominating and Board Development; Finance; Audit; Investment and Development. The Chairperson shall appoint the individuals to serve on the Committees of the Board. In addition, the Chairperson may constitute task forces or other special committees at any time. An individual who is not a member of the Foundation Board may be appointed by the Chairperson to serve on a committee to enhance the purposes of the committee and shall have full voting rights on the assigned committee, although they have no other rights or privileges of a Foundation Member. Notwithstanding the provisions of Article II Section 3. (a), the Chair of a committee shall be a member of the Foundation Board by virtue of being a committee Chair.

A quorum for any committee meeting shall consist of a majority of the voting members of the committee. Once a quorum is established at a committee meeting, a majority of the members present and voting at the time a vote is taken shall be sufficient to authorize action by the committee.

Section 2. Powers and Duties.
(a) Executive and Governance Committee.
The Executive and Governance Committee shall have and may exercise all powers and
authority of the Foundation Board when the Board is not in session, subject only to such restrictions as the Board may from time to time specify. However, the Executive and Governance Committee shall not have authority to alter, amend or repeal the Articles of Incorporation or the Bylaws of the Foundation or to appoint or elect Members, except as provided in Article II, section 4(d). The Executive and Governance Committee of the Board shall consist of:

1. The President of the University of South Florida or his or her designee
2. The Provost and Executive Vice President of the University of South Florida
3. The Officers of the Foundation
4. The Chairs of the Standing Committees of the Foundation
5. The Immediate Past Chairperson of the Foundation Board
6. A person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

The Executive and Governance Committee shall meet at the call of the Chairperson of the Foundation Board, the President of the University System or the Foundation CEO. The Chairperson of the Foundation Board shall serve as the chair. The affirmative vote of a majority of the members present, provided a quorum has been established as provided by these Bylaws, is required to authorize action by the Executive and Governance Committee.

(b) Nominating and Board Development Committee.
The Nominating and Board Development Committee shall consist of no fewer than five (5) Members and which includes the Vice Chairperson of the Foundation and the Secretary of the Foundation. The Nominating and Board Development Committee shall be charged with:

1. Receiving, evaluating and presenting to the Foundation Board nominations for new Members and officers, in the manner provided in these Bylaws.
2. Developing a policy for Member recruitment and officer selection.
3. Nominating individuals for special recognition as Members of the Foundation;
4. Developing a plan for orientation of new Members.
5. Developing a plan for continuing education of Members.
(6) Monitoring the performance of Foundation Members and recommending reappointment of Foundation Members.

Meetings of the Nominating and Board Development Committee shall be held at the call of the Committee chair.

(c) Finance Committee.
The Finance Committee shall consist of no fewer than seven (7) members and shall include the chair of the Investment Committee and the CEO of the Foundation. The Finance Committee shall be charged with review, recommendation and monitoring of the operating budget; review and recommendation of the internal loan and guarantee policy; management of the Foundation’s loans and guarantees in compliance with such policies; and recommendation to the Investment Committee of the administrative fee to be assessed as part of the spending policy.

All transactions of the Finance Committee are subject to approval of the Foundation Board or the Executive and Governance Committee. Meetings of the Finance Committee shall be held at the call of the Committee Chair.

(d) Investment Committee.
The Investment Committee shall consist of no fewer than seven (7) members and shall include the chair of the Finance Committee and the CEO of the Foundation. The Investment Committee shall be charged with: the review and recommendation of the investment and spending policies; management of the Foundation’s investments in compliance with such policies and the investment manager, investment advisor and custodian selection.

All actions of the Investment Committee are subject to approval of the Foundation Board or the Executive and Governance Committee, with the exception of selection and termination of investment managers within the asset allocation limits of the investment policy. Meetings of the Investment Committee shall be held at the call of the Committee chair.
(e) Audit Committee.
The Audit Committee shall consist of no fewer than five (5) members appointed by the Chairperson of the Foundation. The Audit Committee shall be charged with:

1. Recommending to internal and external auditors those areas to be reviewed.
2. Reviewing and evaluating internal and external auditor reports.
3. Recommending to the Foundation Board any actions to be taken as a result of internal and external audits.
4. Monitoring compliance of the Foundation with applicable laws and regulations.

The Chairperson of the Audit Committee shall be selected by the Board Chair. Meetings of the Audit Committee shall be held at the call of the Committee Chair.

(f) Development Committee.
The Development Committee, which during campaigns may also be known as the Campaign Cabinet, shall consist of an appropriate number of members determined by the Chairperson of the Foundation, after consultation with the CEO of the Foundation and shall be charged with:

1. Reviewing, approving, and recommending to the Foundation Board all major fundraising initiatives and campaigns undertaken by the Foundation or the University System or any of its components.
2. Recommending strategies related to the University System's fund raising program to include, but not be limited to, the solicitation and receipt of private gifts, standards for gift recognition and stewardship, and other policies related to the management of the University System's fundraising program.
3. Developing and participating in efforts designed to expand the University System's sphere of influence and increase private gifts made to the Foundation on behalf of the University System.
4. Making recommendations to the Foundation CEO regarding the guidelines for naming of institutional facilities and programs associated with a significant private gift.

The Chair of the Development Committee shall be selected by the Foundation Board Chair.
Meetings of the Development Committee shall be held at the call of the Committee Chair.

(g) Other Committees.
The Chairperson of the Foundation may establish other committees not having and exercising the managerial authority of the Foundation Board. Members of committees shall be appointed by the Chairperson of the Foundation and may include members of the Foundation Board or other appointees where the interests of the Foundation are served.

ARTICLE IV
OFFICERS

Section 1. Composition.
The officers of the Corporation shall consist of the Chairperson, Vice Chairperson, Immediate Past Chairperson, Treasurer, Assistant Treasurer, Secretary and such other officers as the USF Foundation Board may provide. Each Officer, while in office, shall be a member of the Foundation Board by virtue of being an Officer.

Section 2. Election of Officers; Terms of Office.
The Chairperson, with the prior approval of the University System President, shall be nominated and elected by the Foundation Board at the Annual meeting. The Foundation Board at the Annual meeting shall also elect the Vice Chairperson, Treasurer, Assistant Treasurer, and Secretary. Each such officer shall be elected for a term of two (2) years in length, and shall be eligible for successive terms if so nominated. notwithstanding the provisions of Article II, section 3 (a).

Section 3. Powers and Duties.
(a) Chairperson.

The Chairperson of the Foundation shall serve as chair of the Foundation Board and shall preside at all meetings of the Foundation Board. The Chairperson shall perform all the duties commonly incident to the office and shall perform such other duties as may from time to time be assigned by the Foundation Board or Executive and Governance Committee thereof. The Chairperson shall chair the Executive and Governance Committee and he or she will be a
voting member of all Committees of the Board, with the exception of the Audit Committee. The Chairperson, in consultation with the Foundation CEO, shall appoint the chair of each Foundation Committee and may also appoint a vice chair of each Foundation Committee.

(b) Vice Chairperson.
The Vice Chairperson of the Foundation Board shall be responsible for assisting the Chairperson of the Foundation Board in any way so designated by the Chairperson and shall serve as temporary chair of the Foundation Board or of the Executive and Governance Committee in the Chairperson's absence.

(c) Immediate Past Chairperson.
The Immediate Past Chairperson of the Foundation Board shall be responsible for assisting the Chairperson of the Foundation Board in any way so designated by the Chairperson and shall be a voting member of all Committees of the Board.

(d) Chief Executive Officer.
The University System's Sr. Vice President for Advancement and Alumni Affairs shall be the Chief Executive Officer (CEO) of the Foundation, and shall be appointed thereto by the President of the University System. The Foundation CEO shall be the chief operating officer of the Foundation and shall be responsible for the general day-to-day management of the affairs of the Foundation and shall approve all day-to-day transactions. The Foundation CEO shall be responsible for the maintenance and management of the Foundation's activities as may be required by the Foundation Board. The Foundation CEO shall also have the authority to accept, on behalf of the Foundation, gifts of any kind, may collect revenue, may make routine expenditures and shall sign all contracts and instruments related thereto. The Foundation CEO may, in turn, delegate responsibilities to the Chief Financial Officer of the Foundation and to the Foundation Counsel.

(e) Secretary.
The Secretary shall have charge of the Foundation's corporate records and corporate seal; shall record the minutes of all meetings of the Foundation Board and Executive and
Governance Committees, and shall give and serve notice of meetings as required by these Bylaws. The Secretary shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof. The Secretary may delegate part of his or her duties to a staff secretary appointed by the CEO of the Foundation.

(f) Treasurer.
The Treasurer shall serve as a member of the Investment Committee and shall have custody of all the funds and financial records of the Foundation Board, shall disburse funds upon instruction of the Foundation Board or the Executive and Governance Committee thereof; keep full and accurate accounts thereof, together with the report of the annual audit at all meetings of the Foundation Board and whenever else required by the Foundation Board; and shall perform such other duties as may be assigned by the Foundation Board or Executive and Governance Committee thereof.

(g) Assistant Treasurer.
The Assistant Treasurer shall assist the Treasurer in all financial management responsibilities. The Assistant Treasurer shall serve as a member of the Finance Committee and shall perform such other duties as may be assigned by the Treasurer of the Board or Executive and Governance Committee thereof.

(h) University System President.
The University System President as a voting member of the Foundation Board shall have the following powers and duties.

   (1) Monitor and control the use of university resources by the Foundation
   (2) Control the use of the university name by the Foundation
   (3) Monitor compliance of the Foundation with state and federal laws
   (4) Recommend to the University Board of Trustees an annual budget, which has been approved by the Foundation.
   (5) Review and approve expenditure plans at least quarterly.
   (6) Approve salary supplements and other compensation or benefits paid to
University faculty and staff from Foundation assets and salaries, benefits, and other compensation paid to employees of the Foundation. The University System President may designate an individual who shall be a vice president of the university or other senior officer of the university reporting directly to the president to serve in this capacity. Determination of compensation of athletic personnel from Foundation assets may be made at the discretion of the university president and may not be delegated.

(7) Approve contribution of funds or supplements to support intercollegiate athletics.

(i) USF Foundation Counsel.

The USF Foundation Counsel shall represent the Foundation and its officers in all legal matters and shall, where necessary, request the support of the USF Office of the General Counsel, or may appoint additional counsel to represent the Foundation. The Foundation Counsel shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof.

(j) Chief Financial Officer.

The Chief Financial Officer shall be responsible for managing all of the accounting, investment and budget activities for the Foundation. Further responsibilities include oversight in the preparation of the financial statements for the audit and the Foundation tax return. The Chief Financial Officer shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof.

Section 4. Resignation and Removal.

Any officer of the Foundation may resign at any time by giving written notice to the Foundation Board, the Chairperson or the CEO of the Foundation. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Chairperson. The President of the University System may remove from office any officer or agent of the Foundation after consultation with the Foundation’s Executive and Governance Committee. In the event of absence, inability, or refusal to act of any Officer, the Executive and
Governance Committee may appoint a successor to perform such officers’ duties until the following meeting of the Foundation or until a special meeting may be held for a new election.

ARTICLE V
TRANSACTION OF FOUNDATION BUSINESS

Section 1. Checks and Depositories of the Foundation.
Except to the extent otherwise specified in these Bylaws, the Foundation Board shall provide by Resolution which officers or Members are authorized to draw checks upon the funds of the Foundation, and may impose any terms, conditions, or limitations upon such authority. Checks or drafts upon the funds of the Foundation shall be signed by any two of the officers or Members authorized to do so by the Foundation Board or these Bylaws.

Section 2. Operating Budget.
An annual operating budget shall be approved by the Foundation Board and submitted to the University System President who shall submit the operating budget to the University Board of Trustees for review and approval.

ARTICLE VI
FISCAL YEAR AND AUDITS

Section 1. Fiscal Year.
The fiscal year of the Foundation shall be from July 1 to June 30.

Section 2. Audits.
(a) Each fiscal year, the Audit Committee of the Foundation shall select an independent certified public accountant to perform an annual audit of all the accounts of the Foundation. The annual audit shall be performed in accordance with the Generally Accepted Auditing
Standards and Government Auditing Standards issued by the Comptroller General of the United States. A management response letter will be included if appropriate.

(b) Neither the auditors selected nor any employee of any auditing firm selected shall be a Member or any officer of the Foundation Board, unless this requirement is specifically waived by action of the Executive and Governance Committee.

(c) A copy of the report of the auditor shall be made available to each member of the Foundation Board as soon as practicable and such report shall be presented at the next meeting of the Board held after the report is completed.

(d) The annual financial audit and management letter shall be forwarded to the University Board of Trustees for review and oversight.

ARTICLE VII
CONFLICT OF INTEREST

Section 1. Duty to Disclose.
In connection with any actual or possible conflicts of interest, a member of the Foundation Board must complete an annual Conflict of Interest Certification and disclose the existence of his or her financial interest and all material facts to the Foundation Board, or committee as appropriate, which are considering the proposed transactions or arrangements.

Section 2. Procedures for Addressing the Conflict of Interest.
Any member who has disclosed a conflict of interest may make a presentation at the appropriate meeting, but after such presentation, he or she will leave the meeting during the discussion and the vote on the transaction or arrangement that results in the conflict of interest.

Section 3. Annual Disclosure.
Each member of the Foundation Board will annually sign a statement which affirms that he or she has received a copy of the Conflict of Interest Policy, has read and understands the policy, and has agreed to comply with the ethical requirements of the policy. A copy of the Conflict of
Interest Policy is available upon request at the Corporate Offices of the Foundation.

ARTICLE VIII
EMPLOYMENT

Section 1. Employment.
The Foundation is authorized to employ personnel to carry out the specific mission of the Foundation provided however, that any person employed by the organization shall not be considered to be an employee of the State of Florida by virtue of employment by the organization.

ARTICLE IX
AMENDMENTS

Section 1. Method of Amendment or Change.
These Bylaws may be amended or repealed and additional Bylaws added or adopted by a majority vote of the Foundation Board, voting thereon, and in all instances subject to the recommendation by the University System President to the University Board of Trustees, which shall review and approve such amendments, provided, however, that notice thereof, which shall include the text of the change in the Bylaws, has been furnished in writing to each Member at least ten (10) days prior to the meeting at which such change in the Bylaws is to be voted upon. The Articles of Incorporation and Bylaws shall be consistent with the applicable rules of the University and the State Board of Governors, including the rights provided to the University System President.

ARTICLE X
SEAL

Section 1. Description of Seal.
The corporate seal of the Foundation shall bear the words "UNIVERSITY OF SOUTH FLORIDA FOUNDATION, INC.,” AND "TAMPA, FLORIDA" which shall be between two concentric circles,
and on the inside of the inner circle shall be the words "INCORPORATED," "SEAL," and the figures "1958."

ARTICLE XI
PARLIAMENTARY PROCEDURES

Section 1. Rules of Order.

History. Adopted 09/09/58. Amended 06/87, 06/88, 06/90, 06/91, 05/94, 04/95, 1/98, 6/99, 10/02, 4/03, 10/03, 11/11, 2/27/15, 04/17, ___/____.
BYLAWS

RESOLUTION

BE IT RESOLVED by the Board of the University of South Florida Foundation, Inc., that the Bylaws of the University of South Florida Foundation, Inc., are amended and restated to read as follows:

ARTICLE I
LOCATION, PURPOSE AND MEMBERSHIP

Section 1. Location.
The principal office of the University of South Florida Foundation, Inc. (“Foundation”) will be located in Tampa, Florida, Hillsborough County.

Section 2. Purpose.
The Foundation is established pursuant to Section 1004.28 Florida Statutes, as a direct-support organization of the University of South Florida. The general nature of the Foundation is to provide philanthropic support; in the form of money and other forms of property and services to the University of South Florida System (“University System”) and persons, associations and corporations associated therewith; to promote education and other related activities of the University System; and to encourage research, learning and dissemination of information. The Foundation is authorized to act as the fiduciary agent on behalf of the University System for the receipt, management, and distribution of all private gifts made to or for the benefit of the University System. The role of the Foundation Board specifically includes encouraging philanthropic support of university priorities; approval of policy; oversight of financial management; participation in long-range strategic planning; providing volunteer leadership for the University System’s fundraising efforts; and serving in an advisory capacity to the University System President.
Section 3. Members.
The Members of the Foundation shall be the Foundation Board, comprised of the Voting Members, including Elected and Designated Members; and the Non-voting Members, including Campus Executive Officers, Emeritus Members and other individuals elected pursuant to Article II, Section 2(b). With the exception of the Voting Members described in Article II, Section 2(a) (1) and (a) (6), all Members shall be approved by the USF Board of Trustees.

ARTICLE II
FOUNDATION BOARD

Section 1. Governance.
The Foundation shall be managed by and under the direction of the Foundation Board, and by officers and committees thereof, as powers may be delegated to such officers and committees by these Bylaws or by Resolution of the Foundation Board.

Section 2. Composition.
(a) Voting Members.
The Foundation Board shall be composed of at least twenty (20), but not more than fifty (50) Elected Members, one of whom shall be a full-time faculty member or a Dean of the University System. In addition, the following will serve as Designated Members of the Foundation:

   (1) President of the University of South Florida System or his or her designee, in accordance with Section 1004.28, Florida Statutes.
   (2) Provost and Executive Vice President of the University System.
   (3) Chief Operating Officer of the University System.
   (4) President of the University of South Florida Alumni Association.
   (5) President of the USF Bulls Club.
   (6) A person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.
Provided, however, that any person holding more than one of the above offices shall have only one vote as a Member of the Foundation Board.

(b) Non-Voting Members.

(1) The Campus Executive Officers of each Regional Campus or Institution of the University System;
(2) The Emeritus Members;
(3) Other individuals may serve as Non-voting Members. Such Members shall be nominated by majority vote of the Nominating and Board Development Committee and shall be elected by majority vote of the Foundation Board.

Section 3. Terms of Office.

(a) Elected Members.

With the exception of the faculty/dean representative, the term of office of all Elected Members shall be three (3) years. The term of office for the faculty/dean representative to the Foundation Board shall be one (1) year.

All Elected Members shall be eligible for re-election for successive terms if so nominated subject to the following term limits: Except as otherwise provided in Article IV, Section 1, a Member who has served three (3) consecutive three (3) year terms may only be re-elected after at least a one (1) year absence from the Foundation Board.

The term limits for an individual who is appointed to fill a vacancy shall be determined based upon the length remaining for the term they are appointed to serve; those appointed to fill a vacancy with a term remaining of less than two (2) years may be elected for up to three (3) additional consecutive three (3) year terms and those appointed to fill a vacancy with a term remaining of 2 years or more may be elected for up to two (2) additional consecutive three (3) year terms.
(b) Designated Members.
A Designated Member shall serve so long as he or she holds the office or the position which results in he or she being a Designated Member.

(c) Emeritus Members.
The Emeritus Members shall serve until their death, resignation or incapacity. Election as an Emeritus Member of the Foundation Board shall be based upon nomination by the Emeritus Society with reporting of the nominees to the Nominating and Board Development Committee and election by the Foundation Board. The duties of an Emeritus Member shall be specified in a Foundation Policy recommended by the Nominating and Board Development Committee and approved by the Foundation Board.

Section 4. Election of Members.
All Members, with the exception of Designated and Emeritus Members, shall be nominated and elected in the following manner:

(a) Not less than thirty (30) days prior to the Annual meeting of the Foundation, the Foundation’s Secretary shall determine the total number of Members to be elected as provided in these Bylaws and shall notify the Chairperson of the Foundation Board and the Chairperson of the Nominating and Board Development Committee, in writing, of the number of Elected Members who are eligible for re-election and whose terms expire at the next annual meeting of the Foundation.

(b) Upon receipt of said notice, the Nominating and Board Development Committee shall nominate individuals to serve as Elected Members.

(c) At the annual meeting, the Foundation Board shall elect new Members from the nominations of the Nominating and Board Development Committee whose terms will commence at the first Foundation Board meeting following their election.
(d) Vacancies occurring during a term may be filled by the Chairperson of the Foundation Board for the balance of the Member’s term with the approval of the Executive and Governance Committee or the Foundation Board.

(e) Nominations may be made by the Nominating and Board Development Committee for consideration by the Foundation Board at meetings other than the Annual Meeting; however, such nominations should be made only where there is an exceptional candidate that the Committee determines the Foundation Board should have the opportunity to consider for election outside of the regular nomination and election cycle. The Foundation Board may consider such nominations at any meeting of the Board.

Section 5. Meetings.

(a) Regular Meetings.
Regular meetings of the Foundation Board shall be held at least three (3) times per year. The Annual meeting of the Foundation Board shall be held in June, at a time, date and place set by the Chairperson and the CEO of the Foundation. At the annual meeting, the Foundation Board shall elect the Members and officers as provided in these Bylaws and shall transact such other business as may be brought before the Foundation Board. In the event that Members or officers are not elected at the Annual meeting, a special meeting of the Foundation Board may be called for that purpose.

(b) Special Meetings.
Special meetings of the Foundation Board may be called by the Chairperson of the Foundation, the President of the University System, the Foundation CEO or a majority of the total number of Voting Members. Such special meetings of the Foundation Board shall be at a time, date and place designated in the notice of meeting.

(c) Notice of Meetings.
At the Annual meeting, a proposed schedule of Foundation Board meetings for the next fiscal year shall be presented. Within thirty (30) days following the Annual meeting, the Secretary will send a calendar of meetings scheduled for the year to all Members. The Secretary shall give
notice of the annual, regular and special meetings to each Member at least seven (7) days before the meeting. Meeting notices may be sent by mail, facsimile, electronic mail or telephone. If mailed, the notice of the meeting shall be deemed to be given when deposited, postage paid, in the United States mail, addressed to the Member at his or her address as it appears on the records of the Foundation. The notice of any special meeting shall state the purpose thereof. Failure of any Member to receive notice duly given shall not affect the validity of any meeting or acts of the Foundation Board at such meeting. Any Member may waive the notice of any meeting of the Foundation Board before, at, or after such meeting.

(d) Action by Regular or Electronic Mail.
Any action required to be taken at a meeting of the Foundation Board or a committee thereof, may be taken without a meeting if the following conditions are met:

(1) Information in writing setting forth the action to be taken, the necessity for immediate action, the details and method for voting and responding, and a certain date for response is provided to all Members, or all members of the committee, as the case may be.

(2) All reasonable attempts have been made to assure that Members, or members of the committee, as the case may be, have received such information.

(3) Written consent is provided by a majority of the Members or of the members of the committee, as the case may be.

(4) The action taken is filed in the minutes of the proceedings of the Board or committee.

Notice of actions to be taken without a meeting as provided herein, and written consent to such actions, may be handled by regular or electronic mail or facsimile to every Member or the Members of the particular committee involved.

Section 6. Quorum of Foundation Board.
A quorum of the Foundation Board, for any regular meeting or any special meeting which meets all requirements as set forth in these Bylaws, shall consist of a majority of the voting Members. Once a quorum is established at a meeting, the vote of a majority of the Members present and
voting at the time a vote is taken shall be sufficient to authorize action by the Foundation Board.

Section 7. Resignation or Removal.
A Member may resign at any time by giving written notice to the Foundation Board, the Chairperson of the Foundation, the CEO of the Foundation or the President of the University System. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Chairperson. The President of the University System or the Chairperson of the Foundation Board may remove from office any Member with or without cause. Such removal from the Board shall be communicated in writing.

ARTICLE III
COMMITTEES

Section 1. Composition and Quorum.
To assist in the management of the affairs of the Foundation, the following standing committees are established: Executive and Governance; Nominating and Board Development; Finance; Audit; Investment and Development. The Chairperson shall appoint the individuals to serve on the Committees of the Board. In addition, the Chairperson may constitute task forces or other special committees at any time. An individual who is not a member of the Foundation Board may be appointed by the Chairperson to serve on a committee to enhance the purposes of the committee and shall have full voting rights on the assigned committee, although they have no other rights or privileges of a Foundation Member. Notwithstanding the provisions of Article II Section 3. (a), the Chair of a committee shall be a member of the Foundation Board by virtue of being a committee Chair.

A quorum for any committee meeting shall consist of a majority of the voting members of the committee. Once a quorum is established at a committee meeting, a majority of the members present and voting at the time a vote is taken shall be sufficient to authorize action by the committee.

Section 2. Powers and Duties.
(a) Executive and Governance Committee.
The Executive and Governance Committee shall have and may exercise all powers and authority of the Foundation Board when the Board is not in session, subject only to such restrictions as the Board may from time to time specify. However, the Executive and Governance Committee shall not have authority to alter, amend or repeal the Articles of Incorporation or the Bylaws of the Foundation or to appoint or elect Members, except as provided in Article II, section 4(d). The Executive and Governance Committee of the Board shall consist of:

1. The President of the University of South Florida System, or his or her designate
2. The Provost and Executive Vice President of the University of South Florida
3. The Officers of the Foundation
4. The Chairs of the Standing Committees of the Foundation
5. The Immediate Past Chairperson of the Foundation Board
6. A person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

The Executive and Governance Committee shall meet at the call of the Chairperson of the Foundation Board, the President of the University System or the Foundation CEO. The Chairperson of the Foundation Board shall serve as the chair. The affirmative vote of a majority of the members present, provided a quorum has been established as provided by these Bylaws, is required to authorize action by the Executive and Governance Committee.

(b) Nominating and Board Development Committee.

The Nominating and Board Development Committee shall consist of no fewer than five (5) Members and which includes the Vice Chairperson of the Foundation and the Secretary of the Foundation. The Nominating and Board Development Committee shall be charged with:

1. Receiving, evaluating and presenting to the Foundation Board nominations for new Members and officers, in the manner provided in these Bylaws.
2. Developing a policy for Member recruitment and officer selection.
3. Nominating individuals for special recognition as Members of the Foundation;
(4) Developing a plan for orientation of new Members.
(5) Developing a plan for continuing education of Members.
(6) Monitoring the performance of Foundation Members and recommending reappointment of Foundation Members.

Meetings of the Nominating and Board Development Committee shall be held at the call of the Committee chair.

(c) Finance Committee.
The Finance Committee shall consist of no fewer than seven (7) members and shall include the chair of the Investment Committee and the CEO of the Foundation. The Finance Committee shall be charged with review, recommendation and monitoring of the operating budget; review and recommendation of the internal loan and guarantee policy; management of the Foundation’s loans and guarantees in compliance with such policies; and recommendation to the Investment Committee of the administrative fee to be assessed as part of the spending policy.

All transactions of the Finance Committee are subject to approval of the Foundation Board or the Executive and Governance Committee. Meetings of the Finance Committee shall be held at the call of the Committee Chair.

(d) Investment Committee.
The Investment Committee shall consist of no fewer than seven (7) members and shall include the chair of the Finance Committee and the CEO of the Foundation. The Investment Committee shall be charged with: the review and recommendation of the investment and spending policies; management of the Foundation’s investments in compliance with such policies and the investment manager, investment advisor and custodian selection.

All actions of the Investment Committee are subject to approval of the Foundation Board or the Executive and Governance Committee, with the exception of selection and termination of
investment managers within the asset allocation limits of the investment policy. Meetings of the Investment Committee shall be held at the call of the Committee chair.

(e) Audit Committee.
The Audit Committee shall consist of no fewer than five (5) members appointed by the Chairperson of the Foundation. The Audit Committee shall be charged with:

1. Recommending to internal and external auditors those areas to be reviewed.
2. Reviewing and evaluating internal and external auditor reports.
3. Recommending to the Foundation Board any actions to be taken as a result of internal and external audits.
4. Monitoring compliance of the Foundation with applicable laws and regulations.

The Chairperson of the Audit Committee shall be selected by the Board Chair. Meetings of the Audit Committee shall be held at the call of the Committee Chair.

(f) Development Committee.
The Development Committee, which during campaigns may also be known as the Campaign Cabinet, shall consist of an appropriate number of members determined by the Chairperson of the Foundation, after consultation with the CEO of the Foundation and shall be charged with:

1. Reviewing, approving, and recommending to the Foundation Board all major fundraising initiatives and campaigns undertaken by the Foundation or the University System or any of its components.
2. Recommending strategies related to the University System’s fund raising program to include, but not be limited to, the solicitation and receipt of private gifts, standards for gift recognition and stewardship, and other policies related to the management of the University System’s fundraising program.
3. Developing and participating in efforts designed to expand the University System’s sphere of influence and increase private gifts made to the Foundation on behalf of the University System.
4. Making recommendations to the Foundation CEO regarding the guidelines for naming of institutional facilities and programs associated with a significant private gift.
The Chair of the Development Committee shall be selected by the Foundation Board Chair.
Meetings of the Development Committee shall be held at the call of the Committee Chair.

(g) Other Committees.
The Chairperson of the Foundation may establish other committees not having and exercising the managerial authority of the Foundation Board. Members of committees shall be appointed by the Chairperson of the Foundation and may include members of the Foundation Board or other appointees where the interests of the Foundation are served.

ARTICLE IV
OFFICERS

Section 1. Composition.
The officers of the Corporation shall consist of the Chairperson, Vice Chairperson, Immediate Past Chairperson, Treasurer, Assistant Treasurer, Secretary and such other officers as the USF Foundation Board may provide. Each Officer, while in office, shall be a member of the Foundation Board by virtue of being an Officer.

Section 2. Election of Officers; Terms of Office.
The Chairperson, with the prior approval of the University System President, shall be nominated and elected by the Foundation Board at the Annual meeting. The Foundation Board at the Annual meeting shall also elect the Vice Chairperson, Treasurer, Assistant Treasurer, and Secretary. Each such officer shall be elected for a term of two (2) years in length, and shall be eligible for successive terms if so nominated. notwithstanding the provisions of Article II, section 3 (a).

Section 3. Powers and Duties.
(a) Chairperson.
The Chairperson of the Foundation shall serve as chair of the Foundation Board and shall preside at all meetings of the Foundation Board. The Chairperson shall perform all the duties commonly incident to the office and shall perform such other duties as may from time to time be
assigned by the Foundation Board or Executive and Governance Committee thereof. The Chairperson shall chair the Executive and Governance Committee and he or she will be a voting member of all Committees of the Board, with the exception of the Audit Committee. The Chairperson, in consultation with the Foundation CEO, shall appoint the chair of each Foundation Committee and may also appoint a vice chair of each Foundation Committee.

(b) Vice Chairperson.
The Vice Chairperson of the Foundation Board shall be responsible for assisting the Chairperson of the Foundation Board in any way so designated by the Chairperson and shall serve as temporary chair of the Foundation Board or of the Executive and Governance Committee in the Chairperson’s absence.

(c) Immediate Past Chairperson.
The Immediate Past Chairperson of the Foundation Board shall be responsible for assisting the Chairperson of the Foundation Board in any way so designated by the Chairperson and shall be a voting member of all Committees of the Board.

(d) Chief Executive Officer.
The University System’s Sr. Vice President for Advancement and Alumni Affairs shall be the Chief Executive Officer (CEO) of the Foundation, and shall be appointed thereto by the President of the University System. The Foundation CEO shall be the chief operating officer of the Foundation and shall be responsible for the general day-to-day management of the affairs of the Foundation and shall approve all day-to-day transactions. The Foundation CEO shall be responsible for the maintenance and management of the Foundation’s activities as may be required by the Foundation Board. The Foundation CEO shall also have the authority to accept, on behalf of the Foundation, gifts of any kind, may collect revenue, may make routine expenditures and shall sign all contracts and instruments related thereto. The Foundation CEO may, in turn, delegate responsibilities to the Chief Financial Officer of the Foundation and to the Foundation Counsel.

(e) Secretary.
The Secretary shall have charge of the Foundation's corporate records and corporate seal; shall record the minutes of all meetings of the Foundation Board and Executive and Governance Committees, and shall give and serve notice of meetings as required by these Bylaws. The Secretary shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof. The Secretary may delegate part of his or her duties to a staff secretary appointed by the CEO of the Foundation.

(f) Treasurer.
The Treasurer shall serve as a member of the Investment Committee and shall have custody of all the funds and financial records of the Foundation Board, shall disburse funds upon instruction of the Foundation Board or the Executive and Governance Committee thereof; keep full and accurate accounts thereof, together with the report of the annual audit at all meetings of the Foundation Board and whenever else required by the Foundation Board; and shall perform such other duties as may be assigned by the Foundation Board or Executive and Governance Committee thereof.

(g) Assistant Treasurer.
The Assistant Treasurer shall assist the Treasurer in all financial management responsibilities. The Assistant Treasurer shall serve as a member of the Finance Committee and shall perform such other duties as may be assigned by the Treasurer of the Board or Executive and Governance Committee thereof.

(h) University System President.
The University System President as a voting member of the Foundation Board shall have the following powers and duties.

1. Monitor and control the use of university resources by the Foundation
2. Control the use of the university name by the Foundation
3. Monitor compliance of the Foundation with state and federal laws
4. Recommend to the University Board of Trustees an annual budget, which has been approved by the Foundation.
(5) Review and approve expenditure plans at least quarterly.
(6) Approve salary supplements and other compensation or benefits paid to University faculty and staff from Foundation assets and salaries, benefits, and other compensation paid to employees of the Foundation. The University System President may designate an individual who shall be a vice president of the university or other senior officer of the university reporting directly to the president to serve in this capacity. Determination of compensation of athletic personnel from Foundation assets may be made at the discretion of the university president and may not be delegated.
(7) Approve contribution of funds or supplements to support intercollegiate athletics.

(i) USF Foundation Counsel.
The USF Foundation Counsel shall represent the Foundation and its officers in all legal matters and shall, where necessary, request the support of the USF Office of the General Counsel, or may appoint additional counsel to represent the Foundation. The Foundation Counsel shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof.

(j) Chief Financial Officer.
The Chief Financial Officer shall be responsible for managing all of the accounting, investment and budget activities for the Foundation. Further responsibilities include oversight in the preparation of the financial statements for the audit and the Foundation tax return. The Chief Financial Officer shall perform such other duties as may be assigned by the Foundation Board or the Executive and Governance Committee thereof.

Section 4. Resignation and Removal.
Any officer of the Foundation may resign at any time by giving written notice to the Foundation Board, the Chairperson or the CEO of the Foundation. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Chairperson. The President of the University System may remove from office any officer or
agent of the Foundation after consultation with the Foundation's Executive and Governance Committee. In the event of absence, inability, or refusal to act of any Officer, the Executive and Governance Committee may appoint a successor to perform such officers' duties until the following meeting of the Foundation or until a special meeting may be held for a new election.

ARTICLE V
TRANSACTION OF FOUNDATION BUSINESS

Section 1. Checks and Depositories of the Foundation.
Except to the extent otherwise specified in these Bylaws, the Foundation Board shall provide by Resolution which officers or Members are authorized to draw checks upon the funds of the Foundation, and may impose any terms, conditions, or limitations upon such authority. Checks or drafts upon the funds of the Foundation shall be signed by any two of the officers or Members authorized to do so by the Foundation Board or these Bylaws.

Section 2. Operating Budget.
An annual operating budget shall be approved by the Foundation Board and submitted to the University System President who shall submit the operating budget to the University Board of Trustees for review and approval.

ARTICLE VI
FISCAL YEAR AND AUDITS

Section 1. Fiscal Year.
The fiscal year of the Foundation shall be from July 1 to June 30.

Section 2. Audits.
(a) Each fiscal year, the Audit Committee of the Foundation shall select an independent
certified public accountant to perform an annual audit of all the accounts of the Foundation. The annual audit shall be performed in accordance with the Generally Accepted Auditing Standards and Government Auditing Standards issued by the Comptroller General of the United States. A management response letter will be included if appropriate.

(b) Neither the auditors selected nor any employee of any auditing firm selected shall be a Member or any officer of the Foundation Board, unless this requirement is specifically waived by action of the Executive and Governance Committee.

(c) A copy of the report of the auditor shall be made available to each member of the Foundation Board as soon as practicable and such report shall be presented at the next meeting of the Board held after the report is completed.

(d) The annual financial audit and management letter shall be forwarded to the University Board of Trustees for review and oversight.

ARTICLE VII
CONFLICT OF INTEREST

Section 1. Duty to Disclose.
In connection with any actual or possible conflicts of interest, a member of the Foundation Board must complete an annual Conflict of Interest Certification and disclose the existence of his or her financial interest and all material facts to the Foundation Board, or committee as appropriate, which are considering the proposed transactions or arrangements.

Section 2. Procedures for Addressing the Conflict of Interest.
Any member who has disclosed a conflict of interest may make a presentation at the appropriate meeting, but after such presentation, he or she will leave the meeting during the discussion and the vote on the transaction or arrangement that results in the conflict of interest.

Section 3. Annual Disclosure.
Each member of the Foundation Board will annually sign a statement which affirms that he or
she has received a copy of the Conflict of Interest Policy, has read and understands the policy, and has agreed to comply with the ethical requirements of the policy. A copy of the Conflict of Interest Policy is available upon request at the Corporate Offices of the Foundation.

ARTICLE VIII
EMPLOYMENT

Section 1. Employment.
The Foundation is authorized to employ personnel to carry out the specific mission of the Foundation provided however, that any person employed by the organization shall not be considered to be an employee of the State of Florida by virtue of employment by the organization.

ARTICLE IX
AMENDMENTS

Section 1. Method of Amendment or Change.
These Bylaws may be amended or repealed and additional Bylaws added or adopted by a majority vote of the Foundation Board, voting thereon, and in all instances subject to the recommendation by the University System President to the University Board of Trustees, which shall review and approve such amendments, provided, however, that notice thereof, which shall include the text of the change in the Bylaws, has been furnished in writing to each Member at least ten (10) days prior to the meeting at which such change in the Bylaws is to be voted upon.

The Articles of Incorporation and Bylaws shall be consistent with the applicable rules of the University and the State Board of Governors, including the rights provided to the University System President.

ARTICLE X
SEAL

Section 1. Description of Seal.
The corporate seal of the Foundation shall bear the words "UNIVERSITY OF SOUTH FLORIDA FOUNDATION, INC.," AND "TAMPA, FLORIDA" which shall be between two concentric circles, and on the inside of the inner circle shall be the words "INCORPORATED," "SEAL," and the figures "1958."

ARTICLE XI
PARLIAMENTARY PROCEDURES

Section 1. Rules of Order.

History. Adopted 09/09/58. Amended 06/87, 06/88, 06/90, 05/94, 04/95, 1/98, 6/99, 10/02, 4/03, 10/03, 11/11, 2/27/15, 04/17, ___/___.
# BYLAWS OF SUN DOME, INCORPORATED

## Table of Contents

<table>
<thead>
<tr>
<th>Article</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTICLE I</td>
<td>NAME AND ADDRESS</td>
<td>1</td>
</tr>
<tr>
<td>ARTICLE II</td>
<td>PURPOSES AND POWERS</td>
<td>1</td>
</tr>
<tr>
<td>ARTICLE III</td>
<td>MEMBERSHIP</td>
<td>3</td>
</tr>
<tr>
<td>ARTICLE IV</td>
<td>BOARD OF DIRECTORS</td>
<td>3</td>
</tr>
<tr>
<td>ARTICLE V</td>
<td>OFFICERS OF THE CORPORATION</td>
<td>5</td>
</tr>
<tr>
<td>ARTICLE VI</td>
<td>MEETINGS OF THE BOARD OF DIRECTORS AND ITS COMMITTEES</td>
<td>6</td>
</tr>
<tr>
<td>ARTICLE VII</td>
<td>COMMITTEES OF THE BOARD OF DIRECTORS</td>
<td>8</td>
</tr>
<tr>
<td>ARTICLE VIII</td>
<td>ADOPTION AND AMENDMENT</td>
<td>9</td>
</tr>
<tr>
<td>ARTICLE IX</td>
<td>INDEMNIFICATION</td>
<td>9</td>
</tr>
<tr>
<td>ARTICLE X</td>
<td>DEDICATION OF ASSETS AND DISSOLUTION</td>
<td>9</td>
</tr>
<tr>
<td>ARTICLE XI</td>
<td>ACCESS TO CORPORATE RECORDS</td>
<td>9</td>
</tr>
</tbody>
</table>
BYLAWS
OF
SUN DOME, INCORPORATED

ARTICLE I
NAME AND ADDRESS
The name of this corporation is Sun Dome Incorporated (the "Corporation"). The principal office of the Corporation shall be established and maintained in Hillsborough County, Florida. The mailing address of the Corporation shall be University of South Florida, Department of Athletics, 4202 East Fowler Avenue, Tampa, Florida 33620.

ARTICLE II
PURPOSES AND POWERS

SECTION 1. Purposes and Powers.
The Corporation is organized as (i) a corporation not for profit under Chapter 617, Florida Statutes, and (ii) a university direct-support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulations 1.001(8)(b) and 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. The Corporation shall possess all of the powers and authority as are now or may hereafter be granted to corporations not for profit and university direct-support organizations under the laws of the State of Florida. Pursuant to the Corporation’s operations and activities exclusively for the support and benefit of the University, the specific purposes for which the Corporation is organized shall include but not be limited to the following:

A. The Corporation is organized to operate and administer for and on behalf of the University of South Florida certain facilities located on the campus of the University in Hillsborough County, Florida, and other assets as designated by the University, for the conduct of activities, events and entertainment on behalf of the University’s students, faculty and staff; provided however, that the Corporation shall make space available for University personnel at such times as directed by the University’s President, or President’s designee. As such, the Corporation will further promote, stimulate, develop and advance the business prosperity and economic welfare and diversity of the State of Florida (the "State") and its residents.

SECTION 2. Limitations on Purposes and Powers.

A. All the assets and earnings of the Corporation shall be used exclusively for the exempt purposes hereinabove set forth, including the payment of expenses incidental thereto. No part of the net earnings of the Corporation shall inure to the benefit of any member, director, or officer of the Corporation, or any other private individual, and no member, director, or officer of the Corporation or any private individual shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

B. No substantial part of the activities of the Corporation shall be the carrying on of a program of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in, or intervene in (including the publication or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office.

C. The Corporation shall not have the power to convey, lease, pledge, or otherwise encumber assets owned by the State of Florida or the University. The Corporation shall have sole
responsibility for the acts, debts, liabilities, and obligations of the Corporation in accordance with Florida law.
D. The Corporation does not have the power to issue stock or pay dividends, and the private property of the members, directors, and officers shall not be liable for the debts of the Corporation.
E. The Corporation shall not have the power to conduct any activities not permitted by applicable laws including without limitation the Internal Revenue Code and pertinent Treasury Regulations (or corresponding provisions of any subsequent revenue laws) (hereinafter the “Code”).
F. Persons employed by the Corporation shall not be considered employees of the University or State of Florida by virtue of such employment.
G. The University’s President shall retain the ability, powers, and duties to: monitor and control the use of University resources and the University name by the Corporation; assure that the Corporation’s activities are consistent with and supportive of the mission of the University; monitor compliance of the Corporation with federal and state laws and applicable rules, regulations and policies; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Corporation’s assets, consistent with applicable policies; approve salaries, benefits, and other compensation paid to employees of the Corporation, consistent with applicable policies; and otherwise supervise the Corporation as provided by Florida Board of Governors Regulations 9.011, University of South Florida Regulations 13.002, and provisions of any subsequent laws, regulations, and University policies and internal management memoranda.

SECTION 3. Special Duties as a University Direct Support Corporation.

The Corporation shall comply with all requirements and perform all duties which are necessary to maintain approval and certification of the Corporation as a university direct support organization under Section 1004.28, Florida Statutes, Florida Board of Governors Regulation 9.011, and University of South Florida Regulation 13.002, and corresponding provisions of any subsequent laws or regulations. Without limiting the foregoing:

A. The Corporation shall comply with all conditions established by the Florida Board of Governors and the USF Board of Trustees in order to be approved and certified and to use property, facilities, or personal services at the University.
B. The Corporation shall comply with all such additional conditions, controls and requirements as the Florida Board of Governors and the USF Board of Trustees deems appropriate to provide for budget and audit review and oversight.
C. The Corporation’s Executive Director shall report to the University’s President (or designee) in compliance with Florida Board of Governors Regulation 9.011(2).
D. The Corporation shall prepare an operating budget at least annually which, upon approval by the Corporation’s Board of Directors, shall be submitted for approval by the USF Board of Trustees or designee. Significant changes in planned expenditures in the approved budget must be reported by the Corporation to the USF Board of Trustees or designee as soon as practicable but no later than the deadline established by the USF Board of Trustees.
E. The Corporation shall provide for an annual audit conducted pursuant to the University’s regulations or policies. The annual audit report shall be submitted by the Corporation to the USF Board of Trustees or designee, the Florida Board of Governors, and the Florida Auditor General for review. The USF Board of Trustees or designee, the Florida Board of Governors, the Florida Auditor General, and the Florida Office of Program and Policy Analysis and Governmental Accountability may require and receive any records relative to the operation of the Corporation from the Corporation or its independent auditors.
F. The Corporation shall submit its federal Internal Revenue Service application for Recognition of Exemption form (Form 1023) and its federal Internal Revenue Service Return of Organization
Exempt for Income Tax form (Form 990) to the USF Board of Trustees or designee at the times required by the applicable regulation or policy of the USF Board of Trustees.

G. In the event of the Corporation’s decertification by the USF Board of Trustees, the Corporation shall provide an accounting of its assets and liabilities to the USF Board of Trustees or designee, and take such reasonable action as is necessary to secure the return of all University property and facilities as requested by the University.

ARTICLE III
MEMBERSHIP

The sole member of the Corporation shall be the USF Board of Trustees, a public body corporate of the State of Florida, acting for and on behalf of the University (the “Member.”). The Member of the Corporation shall have no voting rights as member of the Corporation.

ARTICLE IV
BOARD OF DIRECTORS

SECTION 1. Powers and Duties

A. The Board of Directors (the “Board”) shall be the governing body of the Corporation exercising supervisory control over the operation, maintenance, and governance of the Corporation in accordance with applicable laws and regulations.

B. The Board shall have the powers, duties and responsibilities vested in the board of directors of a Florida not for profit and university direct support organization under applicable Florida laws and regulations.

SECTION 2. Qualification and Compensation of the Board of Directors

The property, affairs, business, funds and operations of the Corporation shall be managed, supervised and controlled by the Board, subject to applicable law and regulations, the limitations contained in the Corporation’s Articles of Incorporation and Bylaws, and the powers and duties reserved to the University’s President and the USF Board of Trustees. The members of the Board shall serve in such capacity without compensation. The Board shall carry out the purposes of the Corporation in compliance with the Articles of Incorporation and these Bylaws. The Board shall include the incumbent holders of the following named offices and persons from the following named classes:

A. The University’s Vice President of Athletics (the “VP of Athletics”) or their designee.

B. One (1) Director shall be a person who is selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

C. One (1) Director shall be a person who is nominated to the Board by the University’s President as the President’s representative (provided, the University’s President may elect to appoint the VP of Athletics to serve as the President’s representative for this purpose).

D. Up to a maximum of twelve (12) additional persons, to include non-USF employees, who are each nominated to the Board by the University President, the VP of Athletics or their designee, or the Chairperson of the Board of Directors for the Corporation.

The Board of Directors shall be comprised of not less than three (3) persons, but shall not exceed more than fifteen (15). While the University President, the VP of Athletics, and the Chairperson of the Board of
Directors can nominate members to the Board, all Board members shall be approved and formally appointed by the USF Board of Trustees.

Except as may be otherwise provided in the Articles and these Bylaws, Directors shall serve a term of two (2) years and may be reappointed. Directors shall be removed in accordance with the procedure provided in the Bylaws; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees.

SECTION 3. Removal and Resignation of Directors.

Directors may be removed by the University’s President in his/her sole discretion; provided, the Director who is appointed to the Board by the Chairperson of the USF Board of Trustees may be removed only by action of the Chairperson of the USF Board of Trustees. Any Director may resign at any time by giving written notice to the Board. Any such resignation shall take effect at the time specified therein or, if no time is specified therein, upon its acceptance by the Board.

SECTION 4. Conflict of Interest

The Board shall adopt and keep in full force and effect a substantial conflict of interest policy for its Directors and principle officers in accordance with the rules and regulations of the Internal Revenue Service applicable to tax exempt organizations.

ARTICLE V
OFFICERS OF THE CORPORATION

The officers of this Corporation shall be a Chairperson, Vice-Chairperson, Secretary, Chief Executive Officer and such other officers as may be determined by the Board of Directors. All officers shall have such authority and perform such duties as described below:

Chairperson: The Chairperson shall:

A. Exercise overall supervision of Board affairs and preside at meetings of the Board.
B. Provide leadership to the Board and its committees in formulating, developing and evaluating the Corporation's policies and goals;
C. Appoint special committees from time to time for the sole purpose of advising the Chairperson on such matters as may be deemed necessary and appropriate at the time;
D. Develop, coordinate, and supervise all operating policies and procedures of and for the Board; and submit all information and reports to the University’s President as required by Florida Board of Governors Regulation 9.011 and University of South Florida Regulation 13.002.
E. Perform all the duties incident to his/her office and such other duties as may be designated by the University’s President or the Board.

Vice-Chairperson: The Vice-Chairperson shall:

A. In the absence of the Chairperson, preside at meetings of the Board. The Vice Chairperson shall vote in the decisions and actions of the Board.
B. Perform such duties as may be designated by the Chairperson or the Board.
Secretary: The Board shall appoint an individual to serve as the Secretary. The Secretary shall:

A. Oversee the records of attendance, votes, and minutes of all proceedings of the Board and monitor for accuracy.
B. Ensure that a quorum of Directors is present to conduct Board meetings;
C. Have charge of and affix the corporate seal to instruments as appropriate.
D. Have charge of all official records of the Corporation that shall be at all reasonable times open to the inspection of any Director; and
E. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

Chief Executive Officer: Position is the direct representative of the Board in the management of the Corporation. The position’s duties shall include, but are not limited to, the following:

A. Direct and oversee performance of the Corporation.
B. Sign written instruments of the Corporation except as the Board shall provide otherwise;
C. Control the budget and funds of the Corporation;
D. Prepare annual operating and capital budgets; develop performance reports comparing actual operations with approved budgets; and submit reports on the financial condition of the Corporation to the Board at its regular meetings;
E. Create and supervise the Corporation’s administrative management structure and staff; and
F. Perform all the duties incident to his/her office and such other duties as may be designated by the Chairperson or the Board.

SECTION 3. Resignation and Removal

Any officer of the Corporation may resign at any time by giving written notice to the Chairperson or the Secretary. Any such resignation shall take effect at the time specified in the notice, or, if no time is specified therein, upon its acceptance by the Chairperson or the Board. The Chairperson or the Board may, with or without cause, remove from office any officer or agent of the Corporation except the Corporation President/CEO. The University President may, with or without cause, remove from office the Corporation President/CEO. The Chairperson or the Board shall have authority to make appointments to fill vacancies in officer positions, subject to the provisions of these Bylaws.

ARTICLE VI

Meetings of the Board of Directors and its Committees

SECTION 1. Annual Meetings.

The Board shall hold regular meetings as called by the Chairperson. One regular meeting of the Board, to be held in October of each year, shall be designated the annual meeting of the Board for the purpose of electing officers as applicable, appointing new committee members as applicable, and the transaction of other business. The Chairperson and the chairpersons of other committees shall fix the time and place of regular meetings of such Board or committee, respectively.

SECTION 2. Special Meetings.

The Chairperson, the chairpersons of other committees, or the president of the Corporation shall have authority to call special meetings of such Board or committee respectively whenever he/she deems necessary or desirable. In addition, the Chairperson and the president of the Corporation shall call a
special meeting whenever requested in writing to do so by a majority of the members of the Board or other committee.

SECTION 3. Participation in Meetings by Telephone.

Members of the Board and other committees may participate in meetings of the Board and other committees by means of a conference telephone or similar communications equipment by which all persons participating can hear each other at the same time, and participation by such means shall constitute presence in person at such meeting.

SECTION 4. Notice, Agendas and Minutes.

A. Unless waived as provided by law, written notice of the place, date, time, and purpose of regular Board and committee meetings shall be given to each member thereof by personal delivery, mail, facsimile, telegram or email at least one (1) day prior to said meetings, and similar notice of any special meetings shall be given to all Board or committee members as soon as practicable prior to said meetings. Either a regular or special meeting may be held without notice if all Board or committee members waive, in writing, the right to receive notice. Notice of a meeting need not be given to any member who signs a waiver of notice either before or after the meeting. Attendance of any Board or committee member at any meeting shall be deemed a waiver of notice of such meeting and a waiver of any and all objections to the place of the meeting, the time of the meeting, or the manner in which it has been called or convened, except when a member states at the beginning of the meeting or promptly upon arrival at the meeting, any objection to the transaction of affairs because the meeting is not lawfully called or convened.

B. The Chairperson of the Board and the chairpersons of other committees may elect to provide notices of Board and committee meetings to individuals other than members of such Board or committee, respectively. The Chairperson shall provide notices of all Board meetings to the USF Chief Financial Officer who shall have the right to attend all meetings of the Board.

C. A written agenda of the matters to be considered at a Board or committee meeting shall be delivered to members thereof prior to such meeting, provided, however, that Board and committee proceedings shall not be limited to matters set forth in such agenda.

D. Written minutes of the proceedings of the Board and committees shall be maintained and all actions taken at Board and committee meetings shall be properly recorded in the minutes. Minutes shall, where reasonably possible, be delivered to the members of the Board or committee in advance of its next scheduled meeting.

SECTION 5. Quorum and Voting.

A. The presence of a majority of the members of the Board shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of the Board.

B. The presence of a majority of the members of any Board committee shall be necessary and sufficient to constitute a quorum for the transaction of business at all meetings of committees of such Board committee.

C. In the absence of a quorum, a majority of members present at the meeting of the Board or committee may adjourn the meeting until a quorum is present for the transaction of business.

D. The vote of a majority of the members of the Board or any Board committee present at a meeting of the Board or committee shall constitute the action of the Board or Committee except as otherwise provided by these Bylaws.


The most recent edition of “Roberts Rules of Order” shall be followed in conducting the meetings of the Board and committees unless otherwise provided by resolution of the Board.
ARTICLE VII
Committees of the Board of Directors

SECTION 1. Appointment to and Removal from, Composition, and Term of Committees.

A. The chairpersons and members of all standing and special committees of the Board shall be appointed as provided by these Bylaws. A committee chairperson or member may be removed from a committee only by the Board.

B. All committees of the Board shall consist of not less than three (3) members, at least one (1) of whom shall be a Director. Individuals other than Directors shall be eligible to serve on committees. However, the chairperson of each committee shall be a Director.

C. The chairpersons and members of standing committees shall continue in these capacities until their successors have been appointed. Special committees shall be discharged by the Board upon completion of the task for which they are established.

SECTION 2. Other Standing and Special Committees.

A. Composition. The Board may by resolution appoint one or more other standing or special committees which shall perform specific functions and tasks as provided in the resolution, except that a delegation of power to such committees shall not include any of the following powers:

i. approve or recommend to members actions or proposals required by Chapter 617, Florida Statutes, to be approved by members

ii. fill vacancies on the Board or any committee thereof;

iii. adopt, amend, or repeal the Articles of Incorporation or these Bylaws of the Corporation;

iv. sell, lease, exchange, or otherwise dispose of all or substantially all of the property and assets of the Corporation;

v. adopt a plan of voluntary dissolution of the Corporation;

vi. amend or repeal any resolution approved by the Board; or

vii. exercise any other powers specifically provided in the Bylaws as being reserved for the Board.

In addition, if such a committee includes a member who is not a Director, the committee shall not be delegated any powers of the Board. The Board shall have the authority to appoint a special committee from time to time for the sole purpose of advising the Board on such matters as may be deemed necessary and appropriate at the time.

B. Meetings, Quorums and Minutes. Meetings of standing and special committees may be called by the chairperson of the committee or by the Board, or by the Chairperson, and notice of any committee meeting shall be given in the manner provided in these Bylaws for notices of special meetings of the Board. Each committee shall keep regular minutes of its proceedings. The Chairperson, and his/her designees, shall have the right to attend any meeting of any special and standing committee.

ARTICLE VIII
Adoption and Amendments

The Board shall adopt these Bylaws and may from time to time modify, alter, amend or repeal the Bylaws by an affirmative vote of two-thirds (2/3) of the members of the Board present and voting at any duly held regular or special meeting of the Board, or by all Directors signing a written statement manifesting their intention that the Bylaws be adopted, amended or repealed; provided, with respect to such meetings, notice thereof, which shall include the text of the proposed change to the Bylaws, shall be furnished in
writing to each member of the Board at least seven (7) days prior to the meeting at which the change to the Bylaws is to be voted upon; provided further, the adoption, amendment or repeal of the Bylaws shall not be effective without the written concurrence of the University’s President, the USF Board of Trustees, and such other approvals as may be required by law or regulation.

ARTICLE IX
Indemnification
The Corporation shall indemnify each director, officer, employee and agent of the Corporation, and may indemnify any other person, to the full extent permitted by the Florida Not For Profit Corporation Act and other applicable laws. The rights conferred by this Article shall not be exclusive of any other right that any director, officer, employee, agent or other person may have or hereafter acquire under the Florida Not For Profit Corporation Act, any other statute or agreement, pursuant to a vote of disinterested directors, or otherwise. No repeal or modification of this Article shall limit the rights of any director, officer, employee or agent to indemnification with respect to any action or omission occurring prior to such repeal or modification.

ARTICLE X
Dedication of Assets and Dissolution
The Corporation dedicates all assets which it may acquire to the charitable purposes as set forth in Article III hereof. In the event that the Corporation shall dissolve or otherwise terminate its corporate existence, subject to the provision of Chapter 617, Florida Statutes, the Corporation shall distribute all its existing assets as provided in the Articles of Incorporation.

ARTICLE XI
Access to Corporate Records
Public access to all records of the Corporation shall be governed by Section 1004.28, Florida Statutes and the Corporation’s policy on disclosure of records.
UNIVERSITY OF SOUTH FLORIDA
ALUMNI ASSOCIATION, INC.

BYLAWS

ARTICLE I – PURPOSE

The University of South Florida Alumni Association, Inc. (the “Association”) is established pursuant to Section 1004.28, Florida Statutes, as a direct support organization of the University of South Florida (University). The Association is organized and operates to receive, hold, invest, and administer property and to make expenditures to, or for the benefit of, the University of South Florida. The Alumni Association supports this purpose by maintaining mutually beneficial relationships between University and its alumni, building a base of alumni advocates to support University initiatives and providing a variety of programs, services and communications to graduates.

ARTICLE II — MEMBERSHIP

SECTION 1. Members. Any graduate or former student of the University, any member of the faculty or staff, or any person who has an interest in the welfare of the University who is in compliance with Article I II, Section 1, may be a member of the Association. Members in the Association shall be classified as Annual Members (Members) or Life Members (Members), and their associated rights and privileges shall be determined by the Board of Directors. As needed, other membership classes may be established by the Board of Directors.

ARTICLE III — MEMBERSHIP — QUALIFICATIONS

SECTION 1. Dues and Responsibilities. The Board of Directors, by resolution, shall adopt a member dues structure. Individuals eligible for membership under Article II who pay the continuing annual or lifetime dues as established by the Board of Directors and who agree to be bound by and comply with the Association’s articles of incorporation, these bylaws, and any rules and regulations the Board of Directors adopt, will be Members in good standing of the Association.

ARTICLE IV — MEETINGS

SECTION 1. Annual Meetings. The Association shall hold an annual meeting of the Members between January 1 and April 30 of each year. The Board of Directors will give notice of the meeting to all members at least thirty (30) days prior to the meeting.
SECTION 2. Special Meetings. Special meetings of the Members of the Association may be called by the Board of Directors, provided that notice of such special meetings and the matters of business to come before the meeting shall be given to all Members at least seven (7) days prior to the meeting.

SECTION 3. Notice. Notice of the annual or special meetings may be made by either a mailing to all Members, posted on a conspicuous bulletin board at the Association’s principal office, posted on the Association’s website, and/or be provided via e-communications, which may serve additional purposes beyond providing notice of the meeting.

SECTION 4. Quorum. The Members present at a meeting of the Members of the Association shall constitute a quorum for the purpose of transacting business of the meeting. Except as may be hereinafter provided, a majority of the votes cast at a meeting of the Members convened in accordance with these bylaws shall be sufficient to pass on matters of business.

SECTION 5. Rules of Order. The rules of procedure at meetings of this Association shall be those set forth in *Roberts Rules of Order, Revised*, unless otherwise provided in these bylaws.

ARTICLE V — NOMINATIONS AND ELECTIONS

SECTION 1. Solicitation of Nominations. The Governance Committee shall oversee the election/appointment process for the Board. Any qualified individual interested in being considered to serve as an elected director or officer should make their interest known in writing to a member of the Nominating Committee, including the Alumni Association Executive Director. Additionally, members of the Nominating Committee may also bring forward to the Committee for consideration individuals who have not formally submitted their name previously. The Nominating Committee will consider all candidates in accordance with their selection process.

SECTION 2. Nominating Committee. The Chair will work in coordination with the Chair Elect to appoint a Nominating Committee composed of the current Chair, Chair-Elect, Past Chair, two (2) previous Chairs, two (2) members at large and the Alumni Association Executive Director (non-voting). The previous Chairs and members at large will each serve staggered two-year terms. The committee shall be chaired by the Chair-Elect and the committee shall nominate the officers and other persons to be elected by vote.

SECTION 3. Elected Directors and Officers. All Officer positions will be voted on by current Directors from a slate of candidates as provided by the Nominating Committee. All Officer candidates must be a current or former Board member. All Director positions will be determined by a majority vote of verified Association Members present at the annual meeting. Attending Members, including current Board members, will vote on a slate of candidates as
provided by the Nominating Committee, and no other nominations will be accepted outside of the names provided by the Nominating Committee.

SECTION 4. Approval of Directors. All Directors are required to be approved by the USF Board of Trustees, with the exception of the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

ARTICLE VI—OFFICERS AND DIRECTORS

SECTION 1. Officers. All Officers of the Association shall take office upon their selection as provided by these bylaws. The Officers of the Association shall be Chair, Chair-Elect, Secretary, Treasurer, and Past Chair. Except for automatic succession of (i) the Chair-Elect to the Office of Chair; and (ii) the Chair to the office of Past Chair, offices shall be filled by election as provided in Article V or by succession, election, or appointment under the circumstances described in Article VIII.

SECTION 2. The Chair. The Chair shall be the executive head of the Association. The Chair shall be the Chairman of the meetings of the Members, the Board of Directors, and the Executive Committee. The Chair shall automatically succeed to the office of Past Chair after serving the term as Chair. The Chair shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee and Nominating Committee.

SECTION 3. Chair-Elect. The Chair-Elect shall be the Vice Chairman of the meetings of the Members, the Board of Directors and the Executive Committee. The Chair-Elect shall automatically succeed to the office of Chair either after serving the term as Chair-Elect or upon a vacancy in the office of Chair. If the Chair-Elect succeeds to the office of Chair upon a vacancy, the one (1) year term as Chair shall be extended to include the remainder term created by the vacancy. The Chair-Elect shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee, and Nominating Committee.

SECTION 4. Past Chair. The Past Chair shall perform such duties as the Chair may from time to time assign. The Past Chair shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee and Nominating Committee.

SECTION 5. Secretary. The Secretary shall serve a one (1) year term in that office, shall be a voting member of the Board of Directors and Executive Committee and shall perform the duties generally incident to the office, including:

A. Executive Vacancies. In the event of vacancies in the office of Chair-Elect, the Secretary shall call a meeting of the Board of Directors at which election of a successor
to the office of Chair-Elect shall be the first order of business. The Secretary shall preside at such meetings until the Chair-Elect has been elected.

B. **Minutes and Records.** The Secretary shall be charged with the responsibility for ensuring that minutes of all meetings of the members, Board of Directors and the Executive Committee are kept and that the records of the Association are maintained in good order.

C. **Reporting.** The fiscal year of the Association shall be July 1 - June 30. The Secretary shall make reports at each meeting of the Board of Directors regarding the minutes of the past meeting as well as any other matters which may be called for by the Chair or the Board of Directors of the Association.

**SECTION 6. Treasurer.** The Treasurer shall serve a one (1) year term, shall be a voting member of the Board of Directors and shall perform the duties generally incident to the office, including:

A. **Financial Records.** The Treasurer shall arrange for compliance with the annual audit, budget and reporting requirements of University and coordinate the auditing of the books, records and accounts of the Association. Assets of the Association shall be kept in a separate fund within the Treasury of the University of South Florida Foundation, Inc. and shall be accounted for, audited, and administered within the framework of that corporation.

B. **Reporting.** The Treasurer shall make reports at each meeting of the Board of Directors regarding the condition of the Treasury, as well as any other matters which may be called for by the Chair or the Board of Directors of the Association.

**SECTION 7. Directors.** All Directors of the Association shall begin their terms upon their selection as provided by these bylaws. The Directors elected at the annual meeting of the Members in accordance with Article V, Section 3, the Directors appointed by the Chair in accordance with Article VI, Section 8, the President of the University of South Florida or his or her designee and the representative appointed by the Chair of the USF Board of Trustees shall be voting members of the Board of Directors.

**SECTION 8. Appointments.**

A. Student Representatives. Following the regular annual succession of Chair-Elect to Chair, the incoming Chair of the Board shall appoint one (1) member from among the executive officers of the University’s Student Government, and one (1) member from among the Student Ambassadors to serve as voting members on the Board of Directors for a one (1) year term.
B. Foundation Board Liaison. The Chair shall appoint one (1) member from among the Foundation Board to serve as a voting member of the Board of Directors for a one (1) year term.

C. Faculty or Staff Member. The Chair shall appoint one (1) member from the USF Faculty or Staff to serve as a voting member of the Board of Directors for a one (1) year term.

D. USF Athletics Bulls Club Board Representative. Working in coordination with the USF director of athletics, the Chair shall appoint one (1) member from the USF Athletics Bulls Club Board to serve as a voting member of the Board of Directors for a one (1) year term.

E. The USF Board of Trustees Chairperson shall appoint a person in accordance with Section 1004.28, Florida Statutes to serve as a voting member of the Board of Directors for a two (2) year term.

SECTION 9. Executive Director. The Executive Director shall be responsible for the conduct of daily and routine business of the Association in accordance with the policies and procedures described by the Board of Directors as directed by the Executive Committee. The Executive Director shall be selected and appointed by the Board of Directors, subject to the recommendation of the University President. The Executive Director shall attend both the Board of Directors and the Executive Committee meetings as a non-voting member, serve at the pleasure of the Board of Directors and report to the University President or the University President’s designee.

SECTION 10. Sr. Vice President for University Advancement & Alumni Affairs. The Sr. Vice President for University Advancement & Alumni Affairs will serve as a non-voting member of the Board of Directors and the Executive Committee.

SECTION 11. University President. The President, or the President’s designee, of the University of South Florida will serve as a voting member of the Board of Directors and the Executive Committee. The University President shall retain the powers and duties to monitor and control the use of University resources and the University name by the Association; monitor compliance of the Association with state and federal laws and rules of the USF Board of Trustees; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Association’s assets consistent with USF Board of Trustees’ policies; approve salaries, benefits, and other compensation paid to employees of the Association consistent with USF Board of Trustees’ policies; and approve contributions of funds or supplements, if any, to support intercollegiate athletics.

SECTION 12. Vacancies. Except as herein provided, any vacancy of any officer or voting director shall be filled by appointment by the Chair of the Association. Any officer or director
serving by appointment of the Chair to fill a vacancy shall serve the balance of the term of the officer or director for whom the appointee is a replacement.

**SECTION 13. Non-Agency.** Employees of the Alumni Association, if any, shall not be considered employees of the State of Florida solely by virtue of such employment.

**ARTICLE VII — THE BOARD OF DIRECTORS**

**SECTION 1. Composition.** The Board of Directors shall be composed of up to 25 voting Directors and two (2) non-voting Directors. The voting Directors include five (5) officers, 13 Directors elected at the annual meeting of the Board of Directors, one (1) appointed Director representing each of the following areas: Student Government, USF Ambassadors, University faculty or staff, Foundation Board, and USF Athletics Bulls Club Board of Directors. Directors will also include the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes. Every effort will be made to ensure Directors include one representative who is actively affiliated with each of the following areas: USF Sarasota Manatee and USF St. Petersburg.

The non-voting Directors include two (2) ex-officio Director: Senior Vice President of Advancement & Alumni Affairs, and the Associate Vice President and Executive Director of the Association.

<table>
<thead>
<tr>
<th>Voting (25)</th>
<th>Non-Voting (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Officers- Elected</td>
<td>1 USF Sr. VP Advancement &amp; Alumni Affairs</td>
</tr>
<tr>
<td>13 Directors – Elected</td>
<td>1 Executive Director of the Association</td>
</tr>
<tr>
<td>2 Student Representatives- Appointed</td>
<td>1 Faculty or staff representative from the University – Appointed</td>
</tr>
<tr>
<td>1 Foundation Board Liaison- Appointed</td>
<td>1 USF Athletics Bulls Club Board representative – Appointed</td>
</tr>
<tr>
<td>1 USF Board of Trustees representative – appointed</td>
<td>1 USF President or designee</td>
</tr>
</tbody>
</table>

**SECTION 2. Eligibility.** All voting Directors of the Association, except for the student representatives, shall, as a condition to serving on the Board, be life members in compliance with the Member dues structure referenced herein at Article III, Section 1, or qualify for a hardship exemption, and shall begin their terms upon their selection as provided by these bylaws. All Board of Directors’ officer positions shall be graduates of University and comply with the Position Description approved by the Board.
SECTION 3. Terms. All Directors will serve a one or two year term. Voting Directors are limited to four (4) consecutive years of service, with the exception of the USF President or designee and representative appointed by the USF Board of Trustees. Service as an Officer shall not be included in calculating the four (4) year limit. After one (1) year off the Board of Directors, a Director will be eligible for active board service.

SECTION 4. Removal of Director. Any Director may be removed for cause by the Board upon written notice. A Director may be removed pursuant to this section by a vote of two-thirds (2/3) of the Board. The Director whose removal is at issue shall not be entitled to vote on the question of removal. Any Director of the Board of Directors who fails to attend three Board meetings in each Board year, unless excused in advance by the Chair for cause, shall be removed from his or her position, which will be filled by a Director appointed by the Chair. These provisions shall not be applicable to the USF President or designee and the representative appointed by the USF Board of Trustees.

SECTION 5. Powers. The Board of Directors shall be empowered to transact all necessary and essential business of the Association. The Executive Committee shall be empowered to act on the Board of Directors’ behalf during the time period between Board meetings upon matters which the Executive Committee, by majority vote, deems to be of such a nature that awaiting action of the full Board of Directors would not be in the best interests of the Association. All such actions shall be announced and ratified at the next meeting of the Board of Directors. The Board of Directors shall be empowered to write and adopt resolutions and policies of the Board.

SECTION 6. Meetings. The Board of Directors shall hold three (3) meetings per year in addition to the Board of Directors meeting held in conjunction with the annual meeting of the Members; additional meetings of the Board may be called by the Chair, or by the Secretary either upon petition of the majority of the Board of Directors or in accordance with these bylaws.

SECTION 7. Action by Regular or Electronic Mail. Any action required to be taken at a meeting of the Association Board of Directors or a committee thereof, may be taken without a meeting if the following conditions are met:

1) Information in writing setting forth the action to be taken, the necessity for immediate action, the details and method for voting and responding, and a certain date for response is provided to all voting Directors, or all members of the committee, as the case may be.

2) All reasonable attempts have been made to assure that all voting Directors, or members of the committee, as the case may be, have received such information.

3) Written consent is provided by a majority of the voting Board of Directors or of the members of the committee, as the case may be.
4) The action taken is filed in the minutes of the proceedings of the Board of Directors or committee. Notice of actions to be taken without a meeting as provided herein, and written consent to such actions, may be handled by regular or electronic mail or facsimile to every Board Member or members of the particular committee involved.

SECTION 8. Quorum. A majority of the Directors entitled to vote on the matter, represented in person shall constitute a quorum at any meeting of the Board of Directors. A majority of the voting members of the Executive Committee present at a noticed meeting of the Executive Committee shall constitute a quorum. A majority of the votes cast at a meeting of the Board of Directors or a meeting of the Executive Committee convened in accordance with these bylaws shall be sufficient to pass on matters of business, unless otherwise stated herein.

SECTION 9. Proxies. The duties of a Director of the Association are non-delegable and, accordingly, no votes of a Director may be cast by proxy.

ARTICLE VIII—COMMITTEES

SECTION 1. Standing Committees. The standing Committees and their ongoing charges shall be as follows:

A. Executive. Composed of the Chair, Chair-Elect, Secretary, Treasurer, Past Chair, up to three elected directors appointed by the Chair, Executive Director, Sr. Vice President of University Advancement & Alumni Affairs, and the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes. The Executive Committee shall provide overall planning and direction to the Association and act in the absence of the Board of Directors.

B. Finance. The Finance Committee shall develop an annual budget for consideration by the Executive Committee prior to presentation to the Board of Directors; shall review for consideration by the Board of Directors all annual federal tax filings; shall assist the Treasurer in monitoring the financial condition of the Association; and shall monitor compliance with long-range budgetary planning as well as assist with such planning. The Treasurer will serve as chair of the committee.

C. Governance. The Governance Committee shall oversee the process and otherwise set the mechanism for electing qualified candidates for the offices of Officers and the elected Director positions. The Secretary will serve as chair of the committee.
D. **Nominating Committee.** The Nominating Committee is composed of the Chair, Chair-Elect, Past Chair, and Alumni Association Executive Director (non-voting), all by virtue of their positions. Additionally, the Chair will work in coordination with the Chair Elect to appoint two (2) previous Chairs and two (2) members at large. The previous Chairs and members at large will each serve staggered two-year terms, providing for two vacancies each year. The committee shall be chaired by the Chair-Elect and the committee shall nominate the Officers and Directors of the Board to be elected by vote. The candidate identification and selection process is continual and involves identification and awareness of potential candidates from the committee members.

F. **Compensation Committee.** The Chair shall appoint a Compensation Committee whose sole charge shall be to determine, under the applicable IRS regulations, whether the compensation of Officers, Directors and Key Employees, as defined in the regulations, is reasonable. The Committee shall consist of three (3) members, chosen from the Executive Committee by the Chair, each serving a one-year term. The Chair is also eligible to serve as one of the three (3) members of this Committee. The Committee shall meet once annually and shall receive such compensation surveys and other data from staff and/or retained consultants as is necessary to make its determination in accordance with the standards established by applicable IRS regulations.

**SECTION 2. Ad-hoc Committees.** The Alumni Association Chair shall have the power to modify the Standing Committee structure by the formation of Ad-hoc Committees, with Board approval. The term of an Ad-hoc Committee shall, either by specific date or by the occurrence of a designated condition, be set at the time of its approval, but in no case shall it extend beyond three (3) years. An Ad-hoc Committee Chairman shall be appointed for the entire term of the Ad-hoc Committee.

**SECTION 3. Chair and Membership Appointments.** From among the members of the Board of Directors, the Chair shall appoint Chairs of the Standing Committees. Except where otherwise provided for in these bylaws, Standing Committee Chairs shall serve at the discretion of the Chair.

**SECTION 4. Limited Charge.** The Standing Committees shall investigate, study, plan and make recommendations within the scope of their ongoing charge, which shall be reported to the Board of Directors at its regular meetings. They shall engage in other activities only upon express authorization of the Board of Directors unless otherwise provided in these Bylaws. All standing and ad-hoc Committees, excluding the Executive Committee, Nominating Committee and Compensation Committee, should have at least three (3) non-Board members as Committee members, where reasonable and practical.
ARTICLE IX — ALUMNI CHAPTERS

SECTION 1. Charters. University of South Florida Alumni Chapters may be chartered to advance the purposes and objectives of the Alumni Association, on the basis of any identifiable geographic location, upon approval by the Board of Directors of a written request by at least one active member of the Alumni Association within that geographic location.

SECTION 2. Names. The terms “USF Alumni Association__________ Chapter” will be included in the name of each Chapter.

SECTION 3. Organization. Each Chapter may adopt bylaws, defining the organization and operation of the Chapter, which will be effective upon approval of the Board of Directors of the Association.

SECTION 4. Charter Preservation. Chapter charters are perpetual but shall be subject to revocation by the Board of Directors at any time. Revocation of the Chapter charter may result from the Chapter’s failure to demonstrate an appropriate level of activity advancing the purposes and objectives of the Alumni Association within its geographic location or from activity inconsistent with the purposes and objectives of the Alumni Association. The Alumni Association’s Chapters and Societies Procedures Manual shall contain a listing of the types of activities and actions considered appropriate and describe the types of activities that are inappropriate.

SECTION 5. Funds. Chapters shall not levy dues, raise funds, keep any separate USF Foundation or other external bank account or solicit contributions without approval of the Board of Directors of the Association. The Board of Directors shall be the source of funds for the development and operations of Chapters.

ARTICLE X — ALUMNI SOCIETIES

SECTION 1. Charters. University of South Florida Alumni Societies may be chartered to advance the purposes and objectives of the Alumni Association, on the basis of either an alumni constituency of an academic unit of the University of South Florida or of an alumni constituency of a student organization chartered, organized and supported by an organizational unit of the University of South Florida to be of service to that unit’s mission, upon approval by the Board of Directors of a written request by at least one active member of the Alumni Association within that constituency. The Board of Directors shall not charter Societies for alumni of a department where that department’s alumni would also be served by a Society for alumni of a college or school.

SECTION 2. Name. The terms “USF Alumni Association _________________ Society” will be included in the name of each Society.
SECTION 3. Organization. Each Society may adopt bylaws, defining the organization and operation of the Society, which will be effective upon approval of the Board of Directors of the Association.

SECTION 4. Charter Preservation. Society charters are perpetual but shall be subject to revocation by the Board of Directors at any time. Revocation of the Society charter may result from the Society’s failure to demonstrate an appropriate level of activity advancing the purposes and objectives of the Alumni Association within its constituency or from activity inconsistent with the purposes and objectives of the Alumni Association. The Alumni Association’s Chapters and Societies Procedures Manual shall contain a listing of the types of activities and actions considered appropriate and describe the types of activities that are inappropriate.

SECTION 5. Funds. Societies shall not levy dues, raise funds, keep any separate USF Foundation or other external bank account, or solicit contributions without approval of the Board of Directors of the Association. The Board of Directors shall be the source of funds for the development and operations of Societies.

ARTICLE XI – FINANCE

SECTION 1. Operating Budget. An operating budget will be prepared at least annually, approved by the Board of Directors and submitted to the University President for review and recommendation to the USF Board of Trustees for approval.

SECTION 2. Expenditure Reports. An expenditure report will be presented quarterly to the University President or the President’s designee for review and approval. The President’s designee must be a University Vice President or Senior Officer who reports directly to the President.

SECTION 3. Audits

(a) At the close of each fiscal year, the Executive Committee of the Association shall select an independent certified public accountant to perform an annual audit of all the accounts of the Association. The annual audit shall be performed in accordance with the Generally Accepted Auditing Standards and Government Auditing Standards issued by the Comptroller General of the United States and submitted within 180 days following the end of the fiscal year to the USF Board of Trustees. A management response letter will be included if appropriate.

(b) Neither the auditors selected nor any member or employee of any auditing firm selected shall be a Director or Officer of the Association, unless this requirement is specifically waived by action of the Executive Committee.
(c) A copy of the report of the auditor shall be made available to each member of the Board of Directors as soon as practicable and such report shall be presented at the next meeting of the Board of Directors held after the report is completed.

ARTICLE XII — CONFLICT OF INTEREST

SECTION 1. Policy. No member of the Board of Directors will have a material personal interest in conflict with the interests of the Association or be engaged to provide professional or other services to the Association for remuneration, unless the arrangement is the result of a competitive bidding process or is the result of circumstances which, in the judgment of the Executive Committee of the Board of Directors, warrants the arrangement. Nothing herein, however, will preclude the Association from engaging the services of a Director, his or her company, his or her employer or any of his or her associates so long as the relationship is fully disclosed to the Association. A Director having a conflict of interest will not use his or her personal influence in order to obtain a contract with the Association; however, a Director may state his or her position and answer pertinent questions with respect to the matter. In the event the Association engages a Director, his or her company, his or her employer or his or her associate to provide professional services for remuneration, the Association will enter into a written agreement with the Director, his or her employer, his or her company or his or her associate that will specify the nature, term and scope of the engagement, and any other factors determined necessary by the Executive Director.

SECTION 2. Written Disclosure. At least once a year, there will be a full written disclosure by each member of the Board of Directors of all relationships, fees, commissions or other remuneration furnished by the Association to the Director, his or her company, his or her employer or his or her associate or by any organization in which a member has a significant beneficial ownership. Additionally, if any conflict arises during the twelve months following completion of the written disclosure statement, the Director will promptly notify the Executive Director/Secretary in writing. The Executive Committee will be responsible for monitoring the application of this policy.

ARTICLE XIII — AMENDMENTS

SECTION 1. Articles of Incorporation. The Articles of Incorporation may be amended, as provided therein, at the annual or special meetings of the members of the Association held in accordance with these bylaws. Amendments to the Articles of Incorporation will be effective only after submission by the University President for approval by the USF Board of Trustees and approval of the USF Board of Trustees. Amendments to the Articles of Incorporation shall be filed with the Secretary of State of the state of Florida in accordance with law.

SECTION 2. Bylaws. The bylaws of the Association may be amended by a majority vote of the Board of Directors after notice at a previous meeting or after notice mailed to all Directors at least 10 days prior to the meeting at which the amendments are to be considered. Material
amendments to the bylaws will be effective only after submission by the University President for approval by the USF Board of Trustees and approval of the USF Board of Trustees.

Monique Hayes, Secretary
May 28, 2019
UNIVERSITY OF SOUTH FLORIDA
ALUMNI ASSOCIATION, INC.

BYLAWS

ARTICLE I – PURPOSE

The University of South Florida Alumni Association, Inc. (the “Association”) is established pursuant to Section 1004.28, Florida Statutes, as a direct support organization of the University of South Florida (University). The Association is organized and operates to receive, hold, invest, and administer property and to make expenditures to, or for the benefit of, the University of South Florida. The Alumni Association supports this purpose by maintaining mutually beneficial relationships between University and its alumni, building a base of alumni advocates to support University initiatives and providing a variety of programs, services and communications to graduates.

ARTICLE II — MEMBERSHIP

SECTION 1. Members. Any graduate or former student of the University, any member of the faculty or staff, or any person who has an interest in the welfare of the University who is in compliance with Article I II, Section 1, may be a member of the Association. Members in the Association shall be classified as Annual Members (Members) or Life Members (Members), and their associated rights and privileges shall be determined by the Board of Directors. As needed, other membership classes may be established by the Board of Directors.

ARTICLE III — MEMBERSHIP — QUALIFICATIONS

SECTION 1. Dues and Responsibilities. The Board of Directors, by resolution, shall adopt a member dues structure. Individuals eligible for membership under Article II who pay the continuing annual or lifetime dues as established by the Board of Directors and who agree to be bound by and comply with the Association’s articles of incorporation, these bylaws, and any rules and regulations the Board of Directors adopt, will be Members in good standing of the Association.

ARTICLE IV — MEETINGS

SECTION 1. Annual Meetings. The Association shall hold an annual meeting of the Members between January 1 and April 30 of each year. The Board of Directors will give notice of the meeting to all members at least thirty (30) days prior to the meeting.
SECTION 2. Special Meetings. Special meetings of the Members of the Association may be called by the Board of Directors, provided that notice of such special meetings and the matters of business to come before the meeting shall be given to all Members at least seven (7) days prior to the meeting.

SECTION 3. Notice. Notice of the annual or special meetings may be made by either a mailing to all Members, posted on a conspicuous bulletin board at the Association’s principal office, posted on the Association’s website, and/or provided via e-communications, which may serve additional purposes beyond providing notice of the meeting.

SECTION 4. Quorum. The Members present at a meeting of the Members of the Association shall constitute a quorum for the purpose of transacting business of the meeting. Except as may be hereinafter provided, a majority of the votes cast at a meeting of the Members convened in accordance with these bylaws shall be sufficient to pass on matters of business.

SECTION 5. Rules of Order. The rules of procedure at meetings of this Association shall be those set forth in Roberts Rules of Order, Revised, unless otherwise provided in these bylaws.

ARTICLE V — NOMINATIONS AND ELECTIONS

SECTION 1. Solicitation of Nominations. The Governance Committee shall oversee the election/appointment process for the Board. Any qualified individual interested in being considered to serve as an elected director or officer should make their interest known in writing to a member of the Nominating Committee, including the Alumni Association Executive Director. Additionally, members of the Nominating Committee may also bring forward to the Committee for consideration individuals who have not formally submitted their name previously. The Nominating Committee will consider all candidates in accordance with their selection process.

SECTION 2. Nominating Committee. The Chair will work in coordination with the Chair Elect to appoint a Nominating Committee composed of the current Chair, Chair-Elect, Past Chair, two (2) previous Chairs, two (2) members at large and the Alumni Association Executive Director (non-voting). The previous Chairs and members at large will each serve staggered two-year terms. The committee shall be chaired by the Chair-Elect and the committee shall nominate the officers and other persons to be elected by vote.

SECTION 3. Elected Directors and Officers. All Officer positions will be voted on by current Directors from a slate of candidates as provided by the Nominating Committee. All Officer candidates must be a current or former Board member. All Director positions will be determined by a majority vote of verified Association Members present at the annual meeting. Attending Members, including current Board members, will vote on a slate of candidates as
SECTION 4. Approval of Directors. All Directors are required to be approved by the USF Board of Trustees, with the exception of the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes.

ARTICLE VI—OFFICERS AND DIRECTORS

SECTION 1. Officers. All Officers of the Association shall take office upon their selection as provided by these bylaws. The Officers of the Association shall be Chair, Chair-Elect, Secretary, Treasurer, and Past Chair. Except for automatic succession of (i) the Chair-Elect to the Office of Chair; and (ii) the Chair to the office of Past Chair, offices shall be filled by election as provided in Article V or by succession, election, or appointment under the circumstances described in Article VIII.

SECTION 2. The Chair. The Chair shall be the executive head of the Association. The Chair shall be the Chairman of the meetings of the Members, the Board of Directors, and the Executive Committee. The Chair shall automatically succeed to the office of Past Chair after serving the term as Chair. The Chair shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee and Nominating Committee.

SECTION 3. Chair-Elect. The Chair-Elect shall be the Vice Chairman of the meetings of the Members, the Board of Directors and the Executive Committee. The Chair-Elect shall automatically succeed to the office of Chair either after serving the term as Chair-Elect or upon a vacancy in the office of Chair. If the Chair-Elect succeeds to the office of Chair upon a vacancy, the one (1) year term as Chair shall be extended to include the remainder term created by the vacancy. The Chair-Elect shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee, and Nominating Committee.

SECTION 4. Past Chair. The Past Chair shall perform such duties as the Chair may from time to time assign. The Past Chair shall serve a one (1) year term in that office and be a voting member of the Board of Directors, Executive Committee and Nominating Committee.

SECTION 5. Secretary. The Secretary shall serve a one (1) year term in that office, shall be a voting member of the Board of Directors and Executive Committee and shall perform the duties generally incident to the office, including:

A. Executive Vacancies. In the event of vacancies in the office of Chair-Elect, the Secretary shall call a meeting of the Board of Directors at which election of a successor
to the office of Chair-Elect shall be the first order of business. The Secretary shall preside at such meetings until the Chair-Elect has been elected.

B. Minutes and Records. The Secretary shall be charged with the responsibility for ensuring that minutes of all meetings of the members, Board of Directors and the Executive Committee are kept and that the records of the Association are maintained in good order.

C. Reporting. The fiscal year of the Association shall be July 1 - June 30. The Secretary shall make reports at each meeting of the Board of Directors regarding the minutes of the past meeting as well as any other matters which may be called for by the Chair or the Board of Directors of the Association.

SECTION 6. Treasurer. The Treasurer shall serve a one (1) year term, shall be a voting member of the Board of Directors and shall perform the duties generally incident to the office, including:

A. Financial Records. The Treasurer shall arrange for compliance with the annual audit, budget and reporting requirements of University and coordinate the auditing of the books, records and accounts of the Association. Assets of the Association shall be kept in a separate fund within the Treasury of the University of South Florida Foundation, Inc. and shall be accounted for, audited, and administered within the framework of that corporation.

B. Reporting. The Treasurer shall make reports at each meeting of the Board of Directors regarding the condition of the Treasury, as well as any other matters which may be called for by the Chair or the Board of Directors of the Association.

SECTION 7. Directors. All Directors of the Association shall begin their terms upon their selection as provided by these bylaws. The Directors elected at the annual meeting of the Members in accordance with Article V, Section 3, and the Directors appointed by the Chair in accordance with Article VI, Section 8, the President of the University of South Florida or his or her designee and the representative appointed by the Chair of the USF Board of Trustees shall be voting members of the Board of Directors.

SECTION 8. Appointments.

A. Student Representatives. Following the regular annual succession of Chair-Elect to Chair, the incoming Chair of the Board shall appoint one (1) member from among the executive officers of the University’s Student Government, and one (1) member from among the Student Ambassadors to serve as voting members on the Board of Directors for a one (1) year term.
B. Foundation Board Liaison. The Chair shall appoint one (1) member from among the Foundation Board to serve as a voting member of the Board of Directors for a one (1) year term.

C. Faculty or Staff Member. The Chair shall appoint one (1) member from the USF Faculty or Staff to serve as a voting member of the Board of Directors for a one (1) year term.

D. USF Athletics Bulls Club Board Representative. Working in coordination with the USF director of athletics, the Chair shall appoint one (1) member from the USF Athletics Bulls Club Board to serve as a voting member of the Board of Directors for a one (1) year term.

E. The USF Board of Trustees Chairperson shall appoint a person in accordance with Section 1004.28, Florida Statutes to serve as a voting member of the Board of Directors for a two (2) year term.

SECTION 9. Executive Director. The Executive Director shall be responsible for the conduct of daily and routine business of the Association in accordance with the policies and procedures described by the Board of Directors as directed by the Executive Committee. The Executive Director shall be selected and appointed by the Board of Directors, subject to the recommendation of the University President. The Executive Director shall attend both the Board of Directors and the Executive Committee meetings as a non-voting member, serve at the pleasure of the Board of Directors and report to the University President or the University President’s designee.

SECTION 10. Sr. Vice President for University Advancement & Alumni Affairs. The Sr. Vice President for University Advancement & Alumni Affairs will serve as a non-voting member of the Board of Directors and the Executive Committee.

SECTION 11. University President. The President, or the President’s designee, of the University of South Florida will serve as a non-voting member of the Board of Directors and the Executive Committee. The University President shall retain the powers and duties to monitor and control the use of University resources and the University name by the Association; monitor compliance of the Association with state and federal laws and rules of the USF Board of Trustees; approve salary supplements and other compensation or benefits paid to University faculty and staff from the Association’s assets consistent with USF Board of Trustees’ policies; approve salaries, benefits, and other compensation paid to employees of the Association consistent with USF Board of Trustees’ policies; and approve contributions of funds or supplements, if any, to support intercollegiate athletics.

SECTION 12. Vacancies. Except as herein provided, any vacancy of any officer or voting director shall be filled by appointment by the Chair of the Association. Any officer or director
SECTION 13. Non-Agency. Employees of the Alumni Association, if any, shall not be considered employees of the State of Florida solely by virtue of such employment.

ARTICLE VII — THE BOARD OF DIRECTORS

SECTION 1. Composition. The Board of Directors shall be composed of up to 25 voting Directors and two three (32) non-voting Directors. The voting Directors include five (5) officers, 153 Directors elected at the annual meeting of the Board of Directors, one (1) appointed Director representing each of the following areas: Student Government, USF Ambassadors, University faculty or staff, Foundation Board, and USF Athletics Bulls Club Board of Directors. Directors will include one representative who is actively affiliated with each of the following areas: USF Sarasota Manatee and USF St. Petersburg. Directors will also include, and the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes. Every effort will be made to ensure Directors include one representative who is actively affiliated with each of the following areas: USF Sarasota Manatee and USF St. Petersburg.

The non-voting Directors include three two (32) ex-officio Directors: USF President or the President’s designee, Senior Vice President of Advancement & Alumni Affairs, and the Associate Vice President and Executive Director of the Association.

<table>
<thead>
<tr>
<th>Voting (25)</th>
<th>Non-Voting (32)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Officers- Elected</td>
<td>1 USF President, or designee</td>
</tr>
<tr>
<td>153 Directors – Elected</td>
<td>1 USF Sr. VP Advancement &amp; Alumni Affairs</td>
</tr>
<tr>
<td>2 Student Representatives- Appointed</td>
<td>1 Executive Director of the Association</td>
</tr>
<tr>
<td>1 faculty or staff representative from the University – Appointed</td>
<td></td>
</tr>
<tr>
<td>1 Foundation Board Liaison- Appointed</td>
<td></td>
</tr>
<tr>
<td>1 USF Athletics Bulls Club Board representative – Appointed</td>
<td></td>
</tr>
<tr>
<td>1 USF Board of Trustees representative – appointed</td>
<td></td>
</tr>
<tr>
<td>1 USF President or designee</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2. Eligibility. All voting Directors of the Association, except for the student representatives, shall, as a condition to serving on the Board, be life members in compliance with the Member dues structure referenced herein at Article III, Section 1, or qualify for a hardship exemption, and shall begin their terms upon their selection as provided by these bylaws. All
Board of Directors’ officer positions shall be graduates of University and comply with the Position Description approved by the Board.

SECTION 3. Terms. All Directors will serve a one or two year term. Voting Directors are limited to four (4) consecutive years of service, with the exception of the USF President or designee and representative appointed by the USF Board of Trustees. Service as an Officer shall not be included in calculating the four (4) year limit. After one (1) year off the Board of Directors, a Director will be eligible for active board service.

SECTION 4. Removal of Director. Any Director may be removed for cause by the Board upon written notice. A Director may be removed pursuant to this section by a vote of two-thirds (2/3) of the Board. The Director whose removal is at issue shall not be entitled to vote on the question of removal. Any Director of the Board of Directors who fails to attend three Board meetings in each Board year, unless excused in advance by the Chair for cause, shall be removed from his or her position, which will be filled by a Director appointed by the Chair. These provisions shall not be applicable to the USF President or designee and the representative appointed by the USF Board of Trustees.

SECTION 5. Powers. The Board of Directors shall be empowered to transact all necessary and essential business of the Association. The Executive Committee shall be empowered to act on the Board of Directors’ behalf during the time period between Board meetings upon matters which the Executive Committee, by majority vote, deems to be of such a nature that awaiting action of the full Board of Directors would not be in the best interests of the Association. All such actions shall be announced and ratified at the next meeting of the Board of Directors. The Board of Directors shall be empowered to write and adopt resolutions and policies of the Board.

SECTION 6. Meetings. The Board of Directors shall hold three two (23) meetings per year in addition to the Board of Directors meeting held in conjunction with the annual meeting of the Members; additional meetings of the Board may be called by the Chair, or by the Secretary either upon petition of the majority of the Board of Directors or in accordance with these bylaws.

SECTION 7. Action by Regular or Electronic Mail. Any action required to be taken at a meeting of the Association Board of Directors or a committee thereof, may be taken without a meeting if the following conditions are met:

1) Information in writing setting forth the action to be taken, the necessity for immediate action, the details and method for voting and responding, and a certain date for response is provided to all voting Directors, or all members of the committee, as the case may be.

2) All reasonable attempts have been made to assure that all voting Directors, or members of the committee, as the case may be, have received such information.
3) Written consent is provided by a majority of the voting Board of Directors or of the members of the committee, as the case may be.
4) The action taken is filed in the minutes of the proceedings of the Board of Directors or committee.

Notice of actions to be taken without a meeting as provided herein, and written consent to such actions, may be handled by regular or electronic mail or facsimile to every Board Member or members of the particular committee involved.

SECTION 8. Quorum. A majority of the Directors entitled to vote on the matter, represented in person shall constitute a quorum at any meeting of the Board of Directors. A majority of the voting members of the Executive Committee present at a noticed meeting of the Executive Committee shall constitute a quorum. A majority of the votes cast at a meeting of the Board of Directors or a meeting of the Executive Committee convened in accordance with these bylaws shall be sufficient to pass on matters of business, unless otherwise stated herein.

SECTION 9. Proxies. The duties of a Director of the Association are non-delegable and, accordingly, no votes of a Director may be cast by proxy.

ARTICLE VIII—COMMITTEES

SECTION 1. Standing Committees. The standing Committees and their ongoing charges shall be as follows:

A. Executive. Composed of the Chair, Chair-Elect, Secretary, Treasurer, Past Chair, up to three elected directors appointed by the Chair, Executive Director, Sr. Vice President of University Advancement & Alumni Affairs, and the President of the University of South Florida or his or her designee, in accordance with Section 1004.28, Florida Statutes and a person selected and appointed to the Board by the Chairperson of the USF Board of Trustees in accordance with Section 1004.28, Florida Statutes, University President. The Executive Committee shall provide overall planning and direction to the Association and act in the absence of the Board of Directors.

B. Finance. The Finance Committee shall develop an annual budget for consideration by the Executive Committee prior to presentation to the Board of Directors; shall review for consideration by the Board of Directors all annual federal tax filings; shall assist the Treasurer in monitoring the financial condition of the Association; and shall monitor compliance with long-range budgetary planning as well as assist with such planning. The Treasurer will serve as chair of the committee.

C. Governance. The Governance Committee shall oversee the process and otherwise set the mechanism for electing qualified candidates for the offices of Officers and the elected Director positions. The Secretary will serve as chair of the committee.
D. **Nominating Committee.** The Nominating Committee is composed of the Chair, Chair-Elect, Past Chair, and Alumni Association Executive Director (non-voting), all by virtue of their positions. Additionally, the Chair will work in coordination with the Chair Elect to appoint two (2) previous Chairs and two (2) members at large. The previous Chairs and members at large will each serve staggered two-year terms, providing for two vacancies each year. The committee shall be chaired by the Chair-Elect and the committee shall nominate the Officers and Directors of the Board to be elected by vote. The candidate identification and selection process is continual and involves identification and awareness of potential candidates from the committee members.

F. **Compensation Committee.** The Chair shall appoint a Compensation Committee whose sole charge shall be to determine, under the applicable IRS regulations, whether the compensation of Officers, Directors and Key Employees, as defined in the regulations, is reasonable. The Committee shall consist of three (3) members, chosen from the Executive Committee by the Chair, each serving a one-year term. The Chair is also eligible to serve as one of the three (3) members of this Committee. The Committee shall meet once annually and shall receive such compensation surveys and other data from staff and/or retained consultants as is necessary to make its determination in accordance with the standards established by applicable IRS regulations.

**SECTION 2. Ad-hoc Committees.** The Alumni Association Chair shall have the power to modify the Standing Committee structure by the formation of Ad-hoc Committees, with Board approval. The term of an Ad-hoc Committee shall, either by specific date or by the occurrence of a designated condition, be set at the time of its approval, but in no case shall it extend beyond three (3) years. An Ad-hoc Committee Chairman shall be appointed for the entire term of the Ad-hoc Committee.

**SECTION 3. Chair and Membership Appointments.** From among the members of the Board of Directors, the Chair shall appoint Chairs of the Standing Committees. Except where otherwise provided for in these bylaws, Standing Committee Chairs shall serve at the discretion of the Chair.

**SECTION 4. Limited Charge.** The Standing Committees shall investigate, study, plan and make recommendations within the scope of their ongoing charge, which shall be reported to the Board of Directors at its regular meetings. They shall engage in other activities only upon express authorization of the Board of Directors unless otherwise provided in these Bylaws. All standing and ad-hoc Committees, excluding the Executive Committee, Nominating Committee and Compensation Committee, should have at least three (3) non-Board members as Committee members, where reasonable and practical.
ARTICLE IX — ALUMNI CHAPTERS

SECTION 1. Charters. University of South Florida Alumni Chapters may be chartered to advance the purposes and objectives of the Alumni Association, on the basis of any identifiable geographic location, upon approval by the Board of Directors of a written request by at least one active member of the Alumni Association within that geographic location.

SECTION 2. Names. The terms “USF Alumni Association__________ Chapter” will be included in the name of each Chapter.

SECTION 3. Organization. Each Chapter may adopt bylaws, defining the organization and operation of the Chapter, which will be effective upon approval of the Board of Directors of the Association.

SECTION 4. Charter Preservation. Chapter charters are perpetual but shall be subject to revocation by the Board of Directors at any time. Revocation of the Chapter charter may result from the Chapter’s failure to demonstrate an appropriate level of activity advancing the purposes and objectives of the Alumni Association within its geographic location or from activity inconsistent with the purposes and objectives of the Alumni Association. The Alumni Association’s Chapters and Societies Procedures Manual shall contain a listing of the types of activities and actions considered appropriate and describe the types of activities that are inappropriate.

SECTION 5. Funds. Chapters shall not levy dues, raise funds, keep any separate USF Foundation or other external bank account or solicit contributions without approval of the Board of Directors of the Association. The Board of Directors shall be the source of funds for the development and operations of Chapters.

ARTICLE X — ALUMNI SOCIETIES

SECTION 1. Charters. University of South Florida Alumni Societies may be chartered to advance the purposes and objectives of the Alumni Association, on the basis of either an alumni constituency of an academic unit of the University of South Florida or of an alumni constituency of a student organization chartered, organized and supported by an organizational unit of the University of South Florida to be of service to that unit’s mission, upon approval by the Board of Directors of a written request by at least one active member of the Alumni Association within that constituency. The Board of Directors shall not charter Societies for alumni of a department where that department’s alumni would also be served by a Society for alumni of a college or school.

SECTION 2. Name. The terms “USF Alumni Association ________________ Society” will be included in the name of each Society.

10
SECTION 3. Organization. Each Society may adopt bylaws, defining the organization and operation of the Society, which will be effective upon approval of the Board of Directors of the Association.

SECTION 4. Charter Preservation. Society charters are perpetual but shall be subject to revocation by the Board of Directors at any time. Revocation of the Society charter may result from the Society’s failure to demonstrate an appropriate level of activity advancing the purposes and objectives of the Alumni Association within its constituency or from activity inconsistent with the purposes and objectives of the Alumni Association. The Alumni Association’s Chapters and Societies Procedures Manual shall contain a listing of the types of activities and actions considered appropriate and describe the types of activities that are inappropriate.

SECTION 5. Funds. Societies shall not levy dues, raise funds, keep any separate USF Foundation or other external bank account, or solicit contributions without approval of the Board of Directors of the Association. The Board of Directors shall be the source of funds for the development and operations of Societies.

ARTICLE XI – FINANCE

SECTION 1. Operating Budget. An operating budget will be prepared at least annually, approved by the Board of Directors and submitted to the University President for review and recommendation to the USF Board of Trustees for approval.

SECTION 2. Expenditure Reports. An expenditure report will be presented quarterly to the University President or the President’s designee for review and approval. The President’s designee must be a University Vice President or Senior Officer who reports directly to the President.

SECTION 3. Audits

(a) At the close of each fiscal year, the Executive Committee of the Association shall select an independent certified public accountant to perform an annual audit of all the accounts of the Association. The annual audit shall be performed in accordance with the Generally Accepted Auditing Standards and Government Auditing Standards issued by the Comptroller General of the United States and submitted within 180 days following the end of the fiscal year to the USF Board of Trustees. A management response letter will be included if appropriate.

(b) Neither the auditors selected nor any member or employee of any auditing firm selected shall be a Director or Officer of the Association, unless this requirement is specifically waived by action of the Executive Committee.
A copy of the report of the auditor shall be made available to each member of the Board of Directors as soon as practicable and such report shall be presented at the next meeting of the Board of Directors held after the report is completed.

**ARTICLE XII — CONFLICT OF INTEREST**

**SECTION 1. Policy.** No member of the Board of Directors will have a material personal interest in conflict with the interests of the Association or be engaged to provide professional or other services to the Association for remuneration, unless the arrangement is the result of a competitive bidding process or is the result of circumstances which, in the judgment of the Executive Committee of the Board of Directors, warrants the arrangement. Nothing herein, however, will preclude the Association from engaging the services of a Director, his or her company, his or her employer or any of his or her associates so long as the relationship is fully disclosed to the Association. A Director having a conflict of interest will not use his or her personal influence in order to obtain a contract with the Association; however, a Director may state his or her position and answer pertinent questions with respect to the matter. In the event the Association engages a Director, his or her company, his or her employer or his or her associate to provide professional services for remuneration, the Association will enter into a written agreement with the Director, his or her employer, his or her company or his or her associate that will specify the nature, term and scope of the engagement, and any other factors determined necessary by the Executive Director.

**SECTION 2. Written Disclosure.** At least once a year, there will be a full written disclosure by each member of the Board of Directors of all relationships, fees, commissions or other remuneration furnished by the Association to the Director, his or her company, his or her employer or his or her associate or by any organization in which a member has a significant beneficial ownership. Additionally, if any conflict arises during the twelve months following completion of the written disclosure statement, the Director will promptly notify the Executive Director/Secretary in writing. The Executive Committee will be responsible for monitoring the application of this policy.

**ARTICLE XIII — AMENDMENTS**

**SECTION 1. Articles of Incorporation.** The Articles of Incorporation may be amended, as provided therein, at the annual or special meetings of the members of the Association held in accordance with these bylaws. Amendments to the Articles of Incorporation will be effective only after submission by the University President for approval by the USF Board of Trustees and approval of the USF Board of Trustees. Amendments to the Articles of Incorporation shall be filed with the Secretary of State of the state of Florida in accordance with law.

**SECTION 2. Bylaws.** The bylaws of the Association may be amended by a majority vote of the Board of Directors after notice at a previous meeting or after notice mailed to all Directors at least 10 (30) days prior to the meeting at which the amendments are to be considered. Material
amendments to the bylaws will be effective only after submission by the University President for approval by the USF Board of Trustees and approval of the USF Board of Trustees.

Monique Hayes, Secretary
May 28, 2019
Agenda Item: FL 103

USF Board of Trustees
June 6, 2019

Issue: Tenure Nomination as a Condition of Employment

Proposed action: Approve Tenure as a Condition of Employment, USF Tampa

Executive Summary:

Administrators such as the President, Provost, Deans, Chairs, and senior faculty who are recruited to USF Tampa are normally awarded tenure as a condition of employment. These highly qualified individuals usually have earned tenure at their previous institutions, which makes them attractive candidates to USF. In order to attract them, USF must provide a package that is competitive with other nationally and internationally ranked institutions. Tenure upon appointment for qualified candidates, among other things, is a term and condition of the employment package that makes USF an institution of choice.

Financial Impact:

Strategic Goal(s) Item Supports:
USF Strategic Plan 2013-2018, Goal II

BOT Committee Review Date:
Academic and Campus Environment Committee – April 8, 2019

Supporting Documentation Online (please circle): Yes  No
- Memorandum to Brian Lamb, Chair, USF Board of Trustees
- Tenure Nominations as a Condition of Employment
- Faculty Profiles

USF System or Institution specific: USF Tampa

Prepared by: Dwayne Smith, Senior Vice Provost & Dean, Graduate Studies, 813-974-2267
MEMORANDUM

DATE: June 6, 2019

TO: Brian D. Lamb, Chair

FROM: Judy Genshaft, President

SUBJECT: Tenure as a Condition of Employment Nominations, USF Tampa

I am requesting approval by the USF Board of Trustees of the enclosed Tenure as a Condition of Employment Nominations at USF Tampa. In nominating these faculty members for tenure, I certify that the requirements and conditions contained in USF Regulations, Policies, and Procedures for the granting of tenure have been met. I am satisfied that the nominee will make a significant professional contribution to USF Tampa and the academic community.

Enclosures.
<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank</th>
<th>Department/School</th>
<th>Degree of Effort*</th>
<th>Previous Institution</th>
<th>Tenure at Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morsani College of Medicine</td>
<td>Liwong Cui, PhD</td>
<td>Professor</td>
<td>Internal Medicine</td>
<td>1.0</td>
<td>The Pennsylvania State University</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Lianchun Wang, MD</td>
<td>Professor</td>
<td>Molecular Pharmacology &amp; Physiology</td>
<td>1.0</td>
<td>University of Georgia</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Ji Li, PhD, MS, BS</td>
<td>Professor</td>
<td>Surgery</td>
<td>1.0</td>
<td>The University of Mississippi Medical Center</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*If less than 1.0 FTE
USF Health, Morsani College of Medicine

Liwang Cui, PhD

Dr. Liwang Cui joined the faculty at USF Health, the Morsani College of Medicine (MCOM), on October 1, 2018 as Professor with the Department of Internal Medicine. His primary responsibility is research, with a second area of focus in teaching. Dr. Cui is an internationally recognized scientist and researcher and teacher who holds a high profile in his area of research. He comes to USF from Pennsylvania State University where he was Professor in the Department of Entomology. Dr. Cui was funded by multiple NIH grants and served as PI for a Fogarty International Center award, an U19 Research Center award that runs through 2024, two active R01 awards as well as a R21 grant. Dr. Cui’s research focuses on the molecular biology of malaria parasites and the transmission of these parasites by the mosquito vector. He has published 215 peer-reviewed articles, and has served on multiple NIH, Dept. of Defense, and USDA grant review panels. Dr. Cui’s graduate training includes two doctoral degrees, a PhD in Biology from Moldova Agricultural University in the former USSR in 1991 and a PhD in Molecular Virology from the University of Kentucky in 1996. He followed with his post-doctoral training at Walter Reed Army Institute of Research and was appointed as Research Asst. Professor in the Dept. of Preventive Medicine, Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences. Dr. Cui was appointed Assistant Professor in the Dept. of Entomology at Pennsylvania State University in 2000, was promoted to Associate Professor with tenure in 2006 and Professor in 2009. In addition to his numerous research accomplishments, Dr. Cui has positively influenced the education of graduate and postgraduate trainees. Dr. Cui is mentoring 18 postdoctoral and visiting scholars, and 15 graduate students. Dr. Cui exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Internal Medicine recommend Dr. Cui for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
University of South Florida
Tenure Nominations as a Condition of Employment

USF Health, Morsani College of Medicine

Ji Li, PhD, MS, BS

Dr. Ji Li will join the faculty at USF Health, the Morsani College of Medicine (MCOM), on July 1, 2019 as Professor with the Department of Surgery. His primary responsibility is research, with secondary and tertiary areas of focus of teaching and service. Dr. Li is an internationally recognized scientist and researcher and teacher who holds a high profile in his area of research. He was recruited from the University of Mississippi Medical Center (UMMC) where he most recently served as Associate Professor with tenure, and Associate Director of the Mississippi Center or Heart Research. Dr. Li earned a PhD in Cell Biology in 1998, and a MS degree in Biophysics in 1992 from Lanzhou University, Lanzhou, Gansu Province, China. He completed a postdoctoral fellowship in 2000 at Sichuan University, China; was a Visiting Fellow with the NIA/NIH from 2000-2002, and completed a second postdoctoral fellowship in Physiology at Yale University in 2003. Dr. Li has secured NIH funding since 2008. He brings to USF $3.4 million in grant funding. He is the Principal Investigator on two NIH R01 grants, and one American Diabetes Association grant. He is Co-PI on another R01 grant, and has several R01/R21 applications pending. Dr. Li's research focuses on the metabolic parameters associated with myocardial ischemia associated with environmental stress, with particular emphasis on the signal transduction pathways in the regulation of cardiac metabolism. He currently sits on 10 Editorial Boards, and serves on 16 grant review panels. Dr. Li is an active member of many professional societies and recently served as the President for the Chinese American Diabetes Association. He has mentored hundreds of undergraduate and graduate students, supervised 24 Visiting Scholars, sat on 11 Thesis Committees, and three T32 Grant Mentoring Committees. Dr. Li exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Surgery recommend Dr. Li for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
University of South Florida
Tenure Nominations as a Condition of Employment

**USF Health, Morsani College of Medicine**

**Lianchun Wang, MD**

Dr. Lianchun Wang joined the faculty at USF Health, the Morsani College of Medicine (MCOM), on November 1, 2018 as Professor with the Department of Molecular Pharmacology and Physiology. His primary responsibility is research, with secondary and tertiary areas of focus of teaching and service. Dr. Wang is an internationally recognized researcher and teacher who holds a high profile in his area of research. He comes to USF from the University of Georgia (UGA) where he was Professor with tenure in the Department of Biochemistry and Molecular Biology. Dr. Wang has sustained continuous grant funding since 2006 and most recently brings to USF nearly $3 million in funding from the National Cancer Institute, with an additional $3.8 grant pending from the National Institute on Aging. His research focuses on heparan sulfate proteoglycan in cardiovascular biology, cancer, and Alzheimer’s disease. He has 53 peer reviewed publications. His teaching expertise includes cardiovascular physiology, biochemistry, and cell communication and regulation. Dr. Wang earned a Master’s of Science degree in Physiology and Clinical Biochemistry at the Hunan Medical University, China, in 1993. He earned a MD at Heidelberg University, Germany in 1999, and completed a post-doctoral fellowship in Cellular and Molecular Medicine at the University of California San Diego School of Medicine, La Jolla, CA in 2004. Dr. Wang was appointed as Assistant Professor at UGA in 2006, was promoted to Associate Professor with the award of tenure in 2013, and to Professor in 2018. In addition to his numerous research accomplishments, Dr. Wang has trained 7 graduate students, 11 postdocs, numerous undergraduate students, and has served on 23 Graduate Advisory Committees. He has been the invited speaker at 25 national and/or international conferences, and has presented 21 academic seminars throughout the United States, and China. Dr. Wang exceeds the criteria for Professor with tenure. He is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Molecular Pharmacology and Physiology recommend Dr. Wang for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
Executive Summary:

The Ph.D. in Informatics and Big Data Analytics is a 72-credit hour, interdisciplinary program with a focus on scientific methods, processes and systems to extract knowledge and insight from large, diverse data sets with a holistic approach that includes human, statistical and computational perspectives. This interdisciplinary program comprises faculty and courses from the following colleges: Muma College of Business, College of Arts and Sciences, College of Engineering and the College of Public Health.

An increasing number of companies are looking for professionals with experience in Informatics and Big Data Analytics, and they are hard to find, especially at the expert/Ph.D. level. In addition, there is an increasing demand for faculty with Ph.D.s in this field. This program is also timely as we are seeing deep problems in society today (e.g. polarization of society, fake news, algorithmic bias) that need solutions driven by big data, but in a holistic environment comprising human, computational and statistical perspectives.

The program proposal received letters of support from leaders of industry from Google, AT&T Labs, Bank of America and Nielsen. On the academic side the proposal received support letters from Emory University, University of Texas at Austin, National Tsing Hua University and New York University. The external reviewer, who also strongly endorsed the proposal, is a leading academic with substantial interdisciplinary experience in research and program development at the University of Iowa.

Financial Impact:

The program involves courses currently being taught at the graduate level across all the four participating colleges and will not need new courses/sections. Hence, there is no impact on college budgets from this program. The faculty involved in this program will also be able to advise the 15 students in steady state in this program. We are anticipating supporting three students through assistantships from the Muma College of Business’ auxiliary funds. We will also reach out to funding agencies and industry to explore funding opportunities for more Ph.D. students as well.
Strategic Goal(s) Item Supports:

- USF Tampa Strategic Plan Goal 1: Student Success
- USF Tampa Strategic Plan Goal 2: High Impact Research and Innovation

BOT Committee Review Date: ACE May 14, 2019

Supporting Documentation Online (please circle): Yes  No

USF System or Institution specific: USF

Prepared by: Balaji Padmanabhan, Ph.D., Professor and Director, Center for Analytics and Creativity
Board of Governors, State University System of Florida

Request to Offer a New Degree Program
(Please do not revise this proposal format without prior approval from Board staff)

University of South Florida

Fall 2020

Muma College of Business

Proposed Implementation Term

Information Systems & Decision Sciences

Name of College(s) or School(s)

Name of Department(s)/ Division(s)

Informatics

Ph.D. in Informatics and Big Data Analytics

Academic Specialty or Field

Complete Name of Degree

11.0104

Proposed CIP Code

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met prior to the initiation of the program.

Date Approved by the University Board of Trustees

President

Date

Signature of Chair, Board of Trustees

Vice President for Academic Affairs

Date

Provide headcount (HC) and full-time equivalent (FTE) student estimates of majors for Years 1 through 5. HC and FTE estimates should be identical to those in Table 1 in Appendix A. Indicate the program costs for the first and the fifth years of implementation as shown in the appropriate columns in Table 2 in Appendix A. Calculate an Educational and General (E&G) cost per FTE for Years 1 and 5 (Total E&G divided by FTE).

<table>
<thead>
<tr>
<th>Implementation Timeframe</th>
<th>Projected Enrollment (From Table 1)</th>
<th>Projected Program Costs (From Table 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
</tr>
<tr>
<td>Year 1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Year 2</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Year 3</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Year 4</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Year 5</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Note: This outline and the questions pertaining to each section must be reproduced within the body of the proposal to ensure that all sections have been satisfactorily addressed. Tables 1 through 4 are to be included as Appendix A and not reproduced within the body of the proposals because this often causes errors in the automatic calculations.
INTRODUCTION

I. Program Description and Relationship to System-Level Goals

A. Briefly describe within a few paragraphs the degree program under consideration, including (a) level; (b) emphases, including majors, concentrations, tracks, or specializations; (c) total number of credit hours; and (d) overall purpose, including examples of employment or education opportunities that may be available to program graduates.

a) Level: The level of the proposed program is a Doctor of Philosophy (Ph.D.).

b) Emphases: The program will be a Ph.D. in Informatics and Big Data Analytics, without any formal tracks, concentrations, or specializations. Informatics and Big Data Analytics is an interdisciplinary area of scientific methods, processes and systems to extract knowledge and insight from large, diverse data sets with a holistic approach that includes human, statistical and computational perspectives. This interdisciplinary major comprises faculty and courses from the Colleges of Arts & Sciences, Business, Engineering and Public Health.

c) Credit Hours: The minimum number of credit hours for the degree will be 72.

d) Purpose: The Ph.D. in Informatics and Big Data Analytics is a broad, interdisciplinary program exploring theoretical and applied dimensions of information, people, and technology. It is a field that creates technical, information-based solutions to the challenges arising from an increasingly complex digital world toward the betterment of human life and societal growth. To do so, Informatics and Big Data Analytics focuses on systems and technologies for processing data and information. Unlike existing pure data science programs, this proposed program includes the human and social implications of information and technology, bringing in critical components of cognition, ethics, biases and storytelling into a strong big data analytics curriculum. By doing so, this program will graduate advanced big data practitioners, researchers and scientists who can wrangle large data, write code, develop models, build systems, but doing so while acutely aware of issues such as potential biases and ethical uses. Students in the program will develop broad theoretical and applied skills, including how to design, implement, and evaluate information-focused big data technologies that support decision-making across social and organizational contexts.

The link between informatics and big data analytics is novel and important. Informatics addresses computer systems designed from a user or human centered perspective. Increasingly, big data analytics-driven systems are being designed and deployed worldwide in a variety of domains. These systems (and academic programs related to them) are being considered primarily from a technical perspective. This program is one of the first to develop a curriculum that integrates these so that these systems can be studied and understood from both the technical and human/user perspectives.

Why the focus on interdisciplinary? Existing Ph.D. programs (at USF and elsewhere) offer training in all of the stand-alone scientific fields such as Statistics, Mathematics, Computer Science, or Information Systems, but they do not attempt to merge or unify the fields. In that
sense, graduates become experts in a relatively narrow area in e.g. statistical modeling of data, but are entirely inexperienced and unaware of how to e.g. parse and store data, or how to code “apps” and develop solutions that automatically make decisions based on the data models, or how to evaluate the human and societal impact of the developed data solutions and systems. This degree program combines human and technical skills with analytic abilities required to support decision-making by today’s leaders and innovators in various contexts. In that sense, an Informatics and Big Data Analytics Ph.D. will introduce USF students to a truly interdisciplinary program and diverse perspective to many important problems and opportunities for society today that are driven by the availability of big data.

Why now? Because an increasing number of companies are looking for professionals with experience in Informatics and Big Data Analytics, and they are hard to find, especially in the educational spectrum, i.e. at the expert/Ph.D. level. In addition, there is an increasing demand for faculty with Ph.D.s in this field. Academic positions are wide-ranging and include both general informatics-oriented positions, and domain specific ones in areas such as health, security and intelligence, and social informatics. This proposed program is also very timely as we are seeing deep problems in society today (e.g. polarization of society, fake news, algorithmic bias) where analytics-driven solutions alone struggle to be sufficient, that is, problems where the broader perspective of building intelligent systems by being aware of broader issues and human aspects becomes increasingly important as well. Programs that bring together curriculum and faculty expertise from multiple areas (such as Information Systems, Mathematics, Psychology, Computer Science, etc.) will play a critical role in this broader context.

To that end, we propose a new Ph.D. in Informatics and Big Data Analytics at USF. The program is designed to be interdisciplinary and its coursework will draw upon the faculty expertise from several different colleges. The core coursework for this program comprises several different areas crucial to this program. That is, the core coursework covers important technical knowledge from mathematics, statistics, computer science and engineering, but also equally important skills in informatics related areas such as interaction of systems and human decision-making, storytelling from data, communication, ethics and privacy. It is essential to cover a wide variety of areas in the core coursework as we anticipate that students in this program will have strong training in a single, stand-alone discipline (e.g. statistics) and as such will need to study the necessary foundation of core concepts from all of the remaining associated disciplines (such as computer science, psychology and business).

In fact, our external letter writers and evaluators all commented very positively on the proposed curriculum. For instance, Dr. Chris Volinsky, who is the head of the Data Science and AI Research Organization at AT&T Labs and leads a team of 50 Ph.D. data scientists, commented as follows on the demand and need of our proposed curriculum:

“[…] there is a gap in students coming out of traditional graduate schools for data science jobs. Students from statistical programs have great mathematical and theoretical skills but often lack skills with data management or detailed programming experience needed for real-world problems. Computer Science grads, on the other hand, might be great coders but either have focused on algorithmic theory or don’t have practical experience with real world data. […] The best candidates are a hybrid, who have been taught in a multi-disciplinary manner, and can pull from the best of each discipline…As far as I can tell, the best of all worlds is reflected in the USF proposal. It requires statistical and mathematical depth alongside the more practical skills of database and large data management, analytic storytelling, and design of experiments. It will
graduate students with a comprehensive “toolbox” of methods, including standard statistical modeling, machine learning, AI and deep learning methods, and optimization. Also importantly, it covers topics like ethics and privacy, an often overlooked but crucial element of analytics, especially in this age of increasing automation.”

Another distinguishing component of this program is its focus and emphasis on practical application and implementation. Many Ph.D. programs (especially in technical disciplines such as statistics or computer science) are more theoretical in nature and do not focus on solving practical problems. This program will be different. All students will complete a practicum during their second year. During this practicum, students will complete and implement a real-world, big data analytics project, typically in conjunction with an industry partner, drawing upon all of the ideas and concepts from the core curriculum.

Our external letter writers also agree with the importance of such a practicum. For instance, Dr. V. Lakshmanan, Tech Lead of Big Data and Machine Learning at Google, commented:

“I really appreciate the fact that the “comprehensive examination” for this program is practice-focused – even industry veterans truly understand a topic only when they have to apply it to a real problem.”

B. Please provide the date when the pre-proposal was presented to CAVP (Council of Academic Vice Presidents) Academic Program Coordination review group. Identify any concerns that the CAVP review group raised with the pre-proposed program and provide a brief narrative explaining how each of these concerns has been or is being addressed.

Date of CAVP Academic Program Workgroup’s Review: February 6, 2018.
No formal concerns were raised during their review.

C. If this is a doctoral level program please include the external consultant’s report at the end of the proposal as Appendix D. Please provide a few highlights from the report and describe ways in which the report affected the approval process at the university.

We had one formal external evaluation conducted by Professor Nick Street (University of Iowa), who is an expert in the area and who has designed and run interdisciplinary programs himself. In addition to being a prolific researcher, Professor Street has been an administrator (Department Chair) at the University of Iowa and hence has significant practical experience as well.

Professor Street’s evaluative report comments on the need and demand of the proposed program, its curricular structure as well as its administrative set up. In terms of need and demand, Professor Street strongly agrees with the timeliness of a Ph.D. in Informatics and Big Data Analytics and foresees a strong demand for its graduates. He writes:

“In the era of “big data” the need for programs of this type should be evident, and the case is clearly made in the proposal.”

In fact, he believes that the need for this program as well as the demand for its graduates will be strong both in the academic environment as well as in the corporate environment. Based on his own experience, he foresees a strong demand for graduates of our proposed program in academic, tenure-earning positions:
“More and more departments across the academic spectrum are searching for graduates with these skills; this year alone, graduates from our department have received tenure-track offers from computer science, industrial engineering, information science/informatics, and information systems/management science departments.”

At the same time, he sees an even stronger demand in industry. He writes:

“Meanwhile, the need for highly-skilled applied data scientists in industry is practically infinite; as a DEO, I regularly received calls from industrial partners looking for graduates with exactly these qualifications, including at the Ph.D. level.”

Professor Street’s report is very supportive regarding the curricular structure of our proposed program. With respect to its interdisciplinary set up, he writes:

“Despite the huge and growing need for talent, it is basically impossible for a single academic department to provide both the depth and breadth of training that students need to achieve a Ph.D. in this field; such departments simply don’t exist yet.”

He also praises the curricular elements and some of its innovative components:

“The curriculum as proposed in this program is exemplary, covering all the necessary foundational work as well as incorporating some fairly novel components that really stand out to me.”

The core coursework for this proposed program comprises areas that are crucial to Informatics and Big Data Analytics. That is, the core coursework covers important technical knowledge from mathematics, statistics, computer science and engineering, but also equally important skills related to informatics-related areas, such as interaction between systems and human decision-making, communication, ethics and privacy. It is essential to cover a wide variety of areas in the core coursework as we anticipate that students in this program will have strong training in a single, stand-alone discipline coming into the program (e.g. statistics) and as such will need to study the necessary foundation of core concepts from all of the remaining areas and disciplines (such as computer science, psychology and business). Professor Street agrees; he writes:

“Any such program needs solid courses in large data management, data visualization, data mining/machine learning, statistics, and optimization, as included here. Topics such as artificial intelligence, linear algebra and causality give the program a strong data science flavor, comparable to what would be seen in a computer science department, and are also fairly standard.”

One of the innovative components that sets this proposed program apart is its inclusion of the human element and the societal impact of big data tools. That is, it is becoming increasingly important to build intelligent systems that are aware of the broader impact on society, its cognitive biases and their interaction with the human. Professor Street agrees and writes:

“One particularly progressive aspect of the curriculum is the inclusion of courses covering the social aspects of analytics: ethics/privacy, and cognitive biases. For better or worse, are all increasingly reliant on automated decision making in every aspect of our lives. The people who design the next generation of the systems making the decisions clearly need to do a much better job addressing the societal impacts of their work: data privacy, algorithmic transparency, reinforcement of social biases, etc. I am thrilled to see formal training in these areas included in the curriculum […]”
In fact, Professor Street encourages us to emphasize the societal impact, not only during the core coursework, but throughout the entire program; he writes:

“[…] I hope that such issues will be weaved throughout the program.”

We have taken these comments to heart. In fact, we have built a continuation of ethical thinking throughout the dissertation process. That is, the Dissertation Committee consists of at least four faculty members and should include faculty from at least two different colleges. In order to emphasize the impact of the ethical use of data and impact on policymaking we will encourage the student to have at least one member of the dissertation committee who can help the student think critically from these perspectives.

Another distinguishing and innovative component of this program is its focus and emphasis on practical application and implementation. Professor Street agrees with the importance of a practicum. In fact, he believes that it will give an advantage particularly to those who are seeking employment in industry. He writes:

“[…] the emphasis on practical applications is entirely appropriate. Many, if not most of the graduates of this program, will most likely be entering the corporate job market, and the additional applied requirements ensure that they will be ready to take on practical challenges faster and at a higher level than most of their Ph.D. peers.”

In fact, the practicum will not only help our students apply their knowledge to solving practical problems, it will also allow them to integrate the knowledge obtained across the different core areas and as such connect the dots across the different disciplines.

In the same vein, one of the main challenges of any interdisciplinary program is the lack of a “home” department and the danger of students getting lost. This also reflected by Professor Street, who writes:

“However, every program needs a home […]”

We wholeheartedly agree and we have taken these comments to heart. Based on these comments we have added a few important aspects in the program that will help students clearly navigate through this program and obtain a sense of cohort with their peers. These are:

- Joint research seminars: students in this program will join research seminars as a cohort on a regular (biweekly) basis.
- Regular student advisory committee meetings: students will regularly meet with their advisory committee (comprised of interdisciplinary faculty across different colleges). We plan to also have one combined meeting every semester/year to bring all students together to share experiences and current research plans, so that the feeling of a cohort is strengthened while allowing students to learn from one another’s experience in the program.

In addition, we plan on organizing informal get-togethers and social meetings, which will help students to bond with one another and also their faculty.
As pointed out earlier, our proposed program is comprehensive. Unlike existing pure data science programs, this proposed program includes the human and social implications of information and technology, adding critical components of cognition, ethics, biases and storytelling into a strong big data analytics curriculum. Professor Street (as well as our external experts) has commented very favorably on the comprehensiveness of the proposed program. However, comprehensiveness in our program does show up as an extensive core course curriculum, especially during the first two years of the program. Professor Street writes:

“My only real concern with the curriculum is the flip side of its comprehensiveness: there are a lot of required hours, and they come quickly. Fourteen courses in two years, along with a graduate research appointment, will not allow much time for research early on. Similarly, with a large number of required courses, students interested in picking up expertise in an application area (e.g., healthcare) will have little time to do so. As such, it feels more ‘data science’ than informatics.”

We anticipate interest for this program both from applicants who already hold a master’s degree as well as from those with only undergraduate training. For a student with only undergraduate training, we do not believe that our comprehensive coursework is excessive. In fact, we believe that – for such a student – taking all of the required graduate core courses is essential in their preparation for their dissertation research. This is different for a student with a master’s degree, for whom we allow some credits to transfer over (as noted further below). Also, as a point of comparison, UCF’s Big Data Analytics Ph.D. program (with whom we have been in touch, as noted in Section II.C) requires fourteen (3 credit hour) courses, plus 15 hours of restricted electives in addition to 15 hours of dissertation. Our program in comparison requires slightly fewer credit hours of coursework, which could be even more reduced for someone coming in with a master’s degree as we note below.

That said, based on Dr. Street’s comment, we have made the following curricular changes:
1. To allow for more flexibility in the program we allow for up to 12 credit hours of transfer coursework from a previous master’s degree program to count for required core courses, with the caveat that the transferred courses have to be equivalent to specific required courses in the program. Any such request will have to be made in the first semester of the program and will have to be approved by the Doctoral Program Committee. We believe that such an option can reduce the course load for those with master’s degrees and addresses Dr. Street’s comment in this regard.
2. We reduced the number of dissertation hours from 24 to 21, and increased the elective course credits from seven to ten, providing students with some more flexibility in choosing electives if they need to. However, this does not mean that students need to do any more courses necessarily. Since students will be attending joint biweekly research seminars we will allow them the option of also registering for independent study credits (to count for 3 hours of electives) if they wish to.
3. The 21 dissertation hours is a mechanism for students to pick up depth in an application area. In addition to using their electives to pick up depth in an application area (such as healthcare), using the dissertation hours for working closely with a carefully chosen committee on their dissertation over multiple semesters is a mechanism to develop the depth needed in the application area. The dissertation hour requirement here is consistent with the Ph.D. program in business administration at the Muma College of Business, where students also need 21 dissertation hours.
4. We have grouped the required courses into “computational”, “statistical” and “human” categories to clearly bring out the distinction of this program that combines the human element with what might otherwise be done in a typical big data/data science program.
Professor Street also comments on the administrative set up of our proposed program. He is very supportive of a single college taking ownership of the program. He writes:

"Housing the program in the Muma College of Business, which has a solid history of operating successful graduate programs, rather than centrally, strikes me as being crucial to its success."

It is important to note that the individual colleges that are part of this program are in the process of signing an internal agreement that ensures that students will have access to the courses they need as well as to faculty advisors from the different colleges.

Overall, Professor Street is very supportive of our proposed program:

"In summary, I find every reason to believe that the proposed program will be successful. The curriculum is rigorous, innovative and well-designed. The partnership across multiple departments will take careful coordination that may take a year or two to refine, but can work well if all parties are given a stake in the overall direction. The Muma Collage of Business is an ideal home for program administration."

In addition to the formal external evaluation done by Professor Nick Street, we sought letters of support from leaders in both industry and academia who have spent most of their careers working in the informatics and big data areas. Eight such individuals from world-class institutions in both industry and academia wrote letters in support of this proposal. These letter writers were (initials are indicated as a reference to quotes that we highlight subsequently):

- Dr. Valliappa Lakshmanan (VL), Google
- Ms. Tracy Bell (TB), Senior Vice President, Bank of America
- Dr. Chris Volinsky (CV), AT&T Labs
- Mr. Brian Fuhrer (BF), Senior Vice President, Nielsen
- Dr. Ram Chellappa (RC), Associate Dean, Emory University
- Dr. Vasant Dhar (VD), Professor and Director of the Ph.D. in Data Science program at New York University
- Dr. Joydeep Ghosh (JG), Chaired Professor, Electrical & Computer Engineering, University of Texas at Austin
- Dr. Galit Shmueli (GS), Professor, National Tsing Hua University, Taiwan

Collectively these eight experts have nearly 200 years of combined experience either working in industry, or in academia, most of which in areas very closely related to this proposal (i.e. in the informatics and big data analytics area).

All of these letters are included in this proposal as Appendix C. Below are some specific quotes from each of the letter writers (initials are used to refer to each specific reviewer). We have grouped these into four categories: A) based on their views on the curriculum, B) need for a doctoral program in this area, C) need for an interdisciplinary program in this area and D) other comments.

**A. On the curriculum**

GS: "The structure and requirements seem appropriate for a Big Data Analytics Ph.D.-level program, and overall I believe with proper management such a program can be very successful."

JG: "The proposal is very well thought out and well rounded, including topics such as ethics and understanding cognitive biases."

---

8
VD: “I have reviewed the proposed program curriculum of USF. While somewhat different from NYU’s approach, the small core followed by a careful selection of courses from twelve categories appears to be well-thought through and covers many of the foundational areas for the interdisciplinary degree.”

RC: “I was particularly impressed by the 12 required categories from which the core courses are chosen.”

CV: “As far as I can tell, the best of all worlds is reflected in the USF proposal. It requires statistical and mathematical depth alongside the more practical skills of database and large data management, analytic storytelling, and design of experiments. It will graduate students with a comprehensive “toolbox” of methods, including standard statistical modeling, machine learning, AI and deep learning methods, and optimization. Also, importantly, it covers topics like ethics and privacy, an often overlooked but crucial element of analytics, especially in this age of increasing automation. The options in each course category and the large set of electives will let the student tailor their education towards the type of job they would like to get, while ensuring a base level of knowledge.”

**B. Need for an interdisciplinary program:**

GS: “The need for Ph.D. graduates with strong technical capabilities supplemented by an understanding of human and social needs and well-being is burning.”

JG: “It leverages the considerable talent across multiple departments at USF, as well as external resources.”

RC: “I was very pleasantly surprised to learn that the initiative is a multi-disciplinary effort as I do truly believe that Big Data Analytics cuts across a wide variety of disciplines.”

TB: “I find the program to be very forward thinking. I was particularly pleased with the interdisciplinary approach in the curriculum as well as the advisors from the colleges of public health, psychology, business and engineering. I believe each one of these areas play an important role in the future of big data. If there are similar Ph.D. programs in this space, I have not seen them.”

CV: “I have reviewed the curriculum with an eye towards whether a student with these courses would be competitive for the types of jobs offered in organizations like mine. The best candidates are a hybrid, who have been taught in a multi-disciplinary manner, and can pull from the best of each discipline.”

**C. Need for a Ph.D. program in this area:**

GS: “I believe there is a strong need for such a Ph.D. program, given the enormous impact that data scientists have in the design and use of the many automated systems that now govern our everyday lives, including education, employment, financials, health, politics, social connectivity and even dating, to name just a few areas.”

VD: “I have seen other schools emulating the NYU model. Many schools now have a master’s program in Data Science or related area depending on the structure of the university. A few are eager to start Ph.D. programs.”

BF: “Over the last few years we have hired extensively in the area of data management and big data analytics, and only expect the demand for expertise in this discipline to increase. With many of the jobs requiring a high degree of competence, typically at the advanced graduate level. Ph.D. programs like this will make it significantly easier for firms like Nielsen to source the kind of talent we need in today’s world.”

VL: “That is why I am so supportive of the program at USF – because of its potential to graduate advanced researchers in this field. While we at Google can build the frameworks and the tools it is academia that has to build the workforce.”
D. Other Comments:

GS: “Students in interdisciplinary programs sometimes suffer from lack of a “home” and cohort. It is therefore useful to have a joint seminar course where all the Big Data Analytics Ph.D. students meet and interact.”

JG: “This note is to enthusiastically support an interdisciplinary effort at USF (across Arts & Sciences, Engineering, Business and Public Health) to develop a new Ph.D. in Big Data Analytics.”

VD: “I look forward to seeing this program approved by the State of Florida and will be glad to provide my inputs and advice to the team that will be in charge of getting this off the ground in due course.”

RC: “I cannot be more enthusiastic about this effort.”

BF: “From what I have seen there are certainly not many programs that are similar to this anywhere. This can help USF, and the state of Florida itself, establish itself as a significant thought leader in this very important area.”

TB: “I have spent most of my career in the field of data science within Fortune 100 companies. This program directly addresses what I believe is the most critical need in this space, diversity of thought, which ultimately drives creativity and new paths to discovery.”

CV: “The program will train students in the core elements of large scale data analytics, and will be one of the first Ph.D. programs in the field. That level of commitment will ensure employers like AT&T that these students are comprehensive learners and innovative thinkers. In summary, as I look through the syllabus, I would definitely say that a student coming out of this program would be competitive for the types of positions that I hire into in my organization.”

D. Describe how the proposed program is consistent with the current State University System (SUS) Strategic Planning Goals. Identify which specific goals the program will directly support and which goals the program will indirectly support (see link to the SUS Strategic Plan on the resource page for new program proposal).

To remain competitive in the current information revolution, new, advanced skills and technological acumen are necessary to transform raw data into actionable information and knowledge. Computing and information sciences have shifted from a more traditional emphasis on issues of system design and global access, to deep analytics based on complex algorithms, with critical elements of human understanding and interpretation. We seek to capture these evolving realities in our interdisciplinary Ph.D. in Informatics and Big Data Analytics. This program aligns directly with the SUS Strategic Planning Goals and the Board of Governors’ Areas of Programmatic Strategic Emphasis by supporting high-impact research and innovation, driving USF’s role as a major economic engine, and mobilizing public-private partnerships to increase economic and employment opportunities.

The proposed program will directly support the following SUS goals.

(1) SUS Strategic Goal “Teaching and Learning”: Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis

As a STEM program this will increase the number of Ph.D.s produced in STEM.

(2) SUS Strategic Goal “Scholarship, Research and Innovation”: Increase Collaboration and External Support for Research Activity
The Informatics and Big Data Analytics Ph.D. will foster cross-disciplinary research at USF. Since it is a combined effort of several colleges and departments at USF, it will increase cross-campus collaboration and, as such, lead to an increase of grant-writing and external funding.

(3) SUS Strategic Goal “Community & Business Engagement”: Increase Levels of Community and Business Engagement

The Informatics and Big Data Analytics Ph.D. will allow USF to expand faculty and student engagement with community partners, including those in the security/defense, health, and information-intensive sectors. Since one of the program’s goal is for students to tackle and solve real-world, large-scale analytics projects, ideally in collaboration with industry partners, it will offer more opportunities for student participation and facilitate collaborations that add value to the state and local economies. USF’s increased productivity will help Florida’s employers prosper and grow through knowledge transfer and a steady stream of qualified graduates to support Florida’s knowledge economy.

The proposed program will indirectly support the following SUS goals.

(4) SUS Strategic Goal “Teaching and Learning”: Strengthen Quality and Reputation of Academic Programs and Universities;

Few universities in the country today offer any program similar to this, and excelling in such a key program can help further raise the profile of Florida’s state university system.

(5) SUS Strategic Goal “Scholarship, Research and Innovation”: Strengthen Quality and Reputation of Scholarship, Research and Innovation;

This program will bring together faculty from multiple departments as part of interdisciplinary dissertation and advisory committees to work with doctoral students in this program. The doctoral students will therefore be the catalyst for many new interdisciplinary research initiatives in the analytics area. This will produce new research, and in some cases, it is also conceivable that some of this work might result in patents and other types of innovation as well.

E. If the program is to be included in a category within the Programs of Strategic Emphasis as described in the SUS Strategic Plan, please indicate the category and the justification for inclusion.

The Programs of Strategic Emphasis Categories:
1. Critical Workforce:
   • Health
   • Gap Analysis
2. Economic Development:
   • Global Competitiveness
   • Science, Technology, Engineering and Math (STEM)

Please see the Programs of Strategic Emphasis (PSE) methodology for additional explanations on program inclusion criteria at the resource page for new program proposal.
The Florida Board of Governors has identified CIP Code 11.0104 as a Program of Strategic Emphasis in the category of Economic Development – STEM.

F. Identify any established or planned educational sites at which the program is expected to be offered and indicate whether it will be offered only at sites other than the main campus.

The faculty and departments that worked together to design this program are from the USF Tampa campus. However, due to USF’s ongoing consolidation there may be opportunities to involve faculty from USF St. Petersburg and USF Sarasota-Manatee. To this end we have reached out to the Deans of the Colleges of Business at USF St. Petersburg and USF Sarasota-Manatee, both of whom indicated strong support of this program and a desire to participate once it is approved. Post-consolidation this program will provide opportunities for faculty from both USF St. Petersburg and USF Sarasota-Manatee to participate in seminars or research projects related to this doctoral program.

INSTITUTIONAL AND STATE LEVEL ACCOUNTABILITY

II. Need and Demand

A. Need: Describe national, state, and/or local data that support the need for more people to be prepared in this program at this level. Reference national, state, and/or local plans or reports that support the need for this program and requests for the proposed program which have emanated from a perceived need by agencies or industries in your service area. Cite any specific need for research and service that the program would fulfill.

The types of knowledge and skills gained through a Ph.D. in Informatics and Big Data Analytics make this a high-demand career field, and one of the fastest growing. Integrated expertise in analysis, technology, domain knowledge, and leadership will make graduates attractive to government and private sector organizations, as well as academia. The proposed Ph.D. aims not just to produce data analysts, coders or other subject matter experts, but “boundary spanners” who can apply the right data, using the right analysis, to answer the right question, and effectively communicate results to the right user.

National Workforce Need and Projections

National Industry Trends
Informatics-related professions align closely with several of the Bureau of Labor Statistics’ (BLS) categories including “Computer and Information Research Scientists” and “Operations Research Analysts.” The entry-level qualifications for these positions often require an advanced degree and many leadership positions in this field specify that a Ph.D. is preferred. Many of the graduates of our proposed program will likely seek data science and analytics-related positions in industry and will be well prepared for all these positions.

While the BLS does not yet have a category for just “Big Data,” there are important reports recently issued from the agency that emphasize the importance of preparing our workforce for
careers in this interdisciplinary area. A June 2018 report from BLS\(^1\) notes that big data related jobs are currently among the 30 fastest growing occupations in the U.S. and will drive 11+ million new jobs in certain areas in a ten year period (2016-2026), while another BLS report\(^2\) subtitled “big data could be a big deal for jobseekers” compares the impact of big data with the impact of the Internet, noting that “…25 years from now we will have a hard time imagining life without big data.”

National data broadly do indicate a strong need for the research and development work of Computer and Information Research Scientists in order to turn ideas into industry-leading technology. These data also suggest that, as demand for new and better technology grows, demand for computing and information scientists will grow as well. Rapid growth in data collection by businesses will lead to an increased need for data-mining, analytic, and information services. Computer and Information Research Scientists will be needed to develop algorithms that help businesses make sense of very large amounts of data. Businesses use this information to better understand their customers, making the work of Computer and Information Research Scientists increasingly vital.

National data also indicate a need for Operational Research Analysts because technological advances have made it faster and easier for organizations to collect data and improvements in analytical software have made operations research more affordable and more applicable to a wider range of areas. Thus, according to this national data, more companies are expected to employ Operations Research Analysts to help them turn data into valuable information that managers and executives can use to make better decisions in all aspects of their business. Operations Research Analysts manage and analyze these data to improve business operations, supply chains, pricing models, and marketing, and this field will be needed to help hospitals and physicians improve the delivery of healthcare. Furthermore, Operations Research Analysts will continue to be needed to provide support for the military and to develop and implement policies and programs in other areas of government.

According to BLS data, the overall job outlook for Computer and Information Research Scientists is predicted to grow 19% by 2026, much faster than average, and more than 6% higher than other computer-related occupations. In fact, the BLS’s Occupational Outlook Handbook (OOH) states that “Computer and Information Research Scientists are likely to have excellent job prospects,”\(^3\) and the proposed Ph.D. in Informatics and Big Data Analytics would place USF graduates in the top-tier with regards to industry growth. Furthermore, in certain targeted industries such as finance, data project an even greater rate of 49% growth over the next 10 years.

---


Job growth for Operations Research Analysts is higher, with an expected growth rate of 27%. BLS data also project a growing need for analytics professionals to improve business planning and decision-making, anticipating demand for over 31,000 new jobs in this field over the next 10 years.\(^4\) Furthermore, as the healthcare industry explodes in growth, it is projected that Operational Research Analysts in the ambulatory healthcare field can expect 49% growth over the next 10 years.

A Ph.D. in Informatics and Big Data Analytics from USF would place graduates in a highly advantageous position for leadership roles and top-paying jobs. According to the BLS, the median annual salary in the United States is $50,620, while top earners as a Computer and Information Scientist, degrees such as a Ph.D. in Informatics and Big Data Analytics, have a median salary of $114,520 (as of May 2017), and can earn over $176,000, more than twice the amount expected for all other computer-related occupations. Similarly, top Operational Research Analysts with an advanced degree, such as a Ph.D. in Informatics and Big Data Analytics, can be expected to earn over $134,000.

The principal job tasks associated with a Ph.D. in Informatics and Big Data Analytics also fit within the OOH broader industry category of “Management, Scientific, and Technical Consulting Services,” which the BLS says is projected to be the fastest growing industry over the next decade. Wage and salary employment “is expected to grow by 58 percent between 2010 and 2020,” adding more than a million new jobs to the economy. Because the Ph.D. degree in Informatics and Big Data Analytics is designed to prepare “boundary spanners” (sometimes called “translators”), it will likely be in immediate demand according to at least one McKinsey projection:\(^5\)

> “We estimate there could be demand for approximately two million to four million business translators in the United States alone over the next decade.”

The OOH uses a limited number of job titles. Listed in the Table 1 below are the job titles, 2016 median pay and job outlook for several positions that align closely with the proposed Ph.D. in Informatics and Big Data Analytics learning objectives.

<table>
<thead>
<tr>
<th>BLS Title</th>
<th>Median Pay 2017</th>
<th>Job Outlook 2016-2026</th>
<th>Employment Change 2016-2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Research Scientists</td>
<td>$114,520</td>
<td>+19%</td>
<td>5,400</td>
</tr>
<tr>
<td>Federal Operations Research Analyst</td>
<td>$84,060</td>
<td>+27</td>
<td>31,000</td>
</tr>
<tr>
<td>Management Analyst</td>
<td>$82,450</td>
<td>+14%</td>
<td>115,200</td>
</tr>
<tr>
<td>Market Research Analyst</td>
<td>$63,230</td>
<td>+23%</td>
<td>138,300</td>
</tr>
<tr>
<td>Information Security Analyst</td>
<td>$95,510</td>
<td>+28%</td>
<td>28,500</td>
</tr>
<tr>
<td>Database Administrator</td>
<td>$87,020</td>
<td>+11%</td>
<td>13,700</td>
</tr>
</tbody>
</table>


For the past 15 years, *InformationWeek* has conducted an annual *IT Salary Survey*. Based on results from the 2013 Survey, the median income for analytics/business intelligence analysts is $93,000; for analytics/business intelligence managers it is $132,000 (Murphy, 2013). Within that sector, the survey found that “the highest salaries among analytics pros go to ‘difference makers’ who can pull together the right data and make sense of it to meet a business need.” By 2016, salaries had risen. Security Specialists were expected to begin at a base salary of $103,000 while other positions had seen over a 1.1% rise in the last fiscal year. Thus, as a growing field there is both demand for positions and rising compensation.

**State and Local Needs and Projections**

There are positive growth projections for Florida specifically over the next 10 years for graduates with a Ph.D. in Informatics and Big Data Analytics. The occupational employment projections are developed for all states by Labor Market Information (LMI) or individual states by Employment Projections offices. All state projections data are available at *Projections Central*. According to this data for Florida, there is a 32.6% projected rate of growth and a net gain of 2,120 positions for Operations Research Analysts, a 38.3% growth rate for Information Security Analysts, and a 13.1% growth rate for Computer and Information Research Scientists. Furthermore, because of our state’s position as a leader in many areas of business, there is a 25.2% projected growth rate in this field, with a net gain of 13,300 positions for Management Analysts.

**Academic**

Some of the graduates of the proposed Ph.D. program will take positions in academia as faculty members. The Computing Research Association (CRA; [www.cra.org](http://www.cra.org)) collaborates with a number of universities and academic departments in North America, primarily in computer science, information, as well as national laboratories and centers and professional organizations in industry and government. The annual Taulbee Survey ([https://cra.org/resources/taulbee-survey/](https://cra.org/resources/taulbee-survey/)) released by CRA provides a range of data on the enrollment, production, and employment in computing fields, including informatics and information science. These trends do provide a broad overview, given that many of these graduates would be employable in informatics and big data analytics positions. The niche of big data analytics itself is not yet being comprehensively tracked in and of itself though.

Specifically, the most recent Taulbee Survey indicates an overall increase in graduate (master’s and Ph.D.) degree production (up 6.1% from the previous year). Across the schools participating in the survey, there were 83 Ph.D.s granted, an 8.3% increase, with even more (95) graduates expected in the coming year. In the Informatics and Information Science, Information Systems, and Social Computing/Informatics specialties, sectors where some of our proposed graduates will seek employment, a large number were working in industry (56), and a number of others were in various academic, government, or other positions (see Figure 1 Employment of New Ph.D. Recipients).
Figure 1: Employment of New Ph.D. Recipients

Research in this field is growing with the rapid expansion and availability of information such as health-related data. For example, many colleges and universities are devoting more resources to the field of digital health including personal health informatics, health data analytics, precision medicine, remote care, and self-care. Northeastern University in Massachusetts has identified health as one of three major university-wide interdisciplinary strategic initiatives, and is investing heavily in interdisciplinary health research. Furthermore, Northeastern has made strategic faculty hires in the last few years in personal health informatics, data science and data visualization (with a health data emphasis), health systems, bioinformatics, health policy, urban health, population health, health equity, and health administration – all of which would be serviced by a Ph.D. in Informatics and Big Data Analytics from USF. Also, Georgia Tech’s School of Interactive Computing works in a wide range of research areas relating to the interface of computing to the world, similar in scope to what we are proposing with the USF Ph.D. in Informatics and Big Data Analytics. Again, graduates from our proposed Ph.D. program would meet many of the qualifications for faculty positions in this and similar programs.

Federal research funding is also available to support research in this area. Given our areas of emphasis, likely agencies include: National Institutes of Health (NIH), National Science Foundation (NSF), Department of Defense (DoD), Intelligence Advanced Research Projects Activity (IARPA), Defense Advanced Research Projects Agency (DARPA), Department of Energy (DoE), as well as private industry or national laboratories. USF’s reputation as a robust research university, combined with its close relationships with many government entities, makes the proposed Ph.D. program very competitive for grant funding. USF faculty also have a track record of being funded by these agencies. In addition, the interdisciplinary nature of the proposed Ph.D. program makes many grant requests more likely to be funded than those that focus on only one discipline. Thus this Ph.D. program would be uniquely positioned to obtain research funding.
B. Demand: Describe data that support the assumption that students will enroll in the proposed program. Include descriptions of surveys or other communications with prospective students.

Industry and Student Demand

Students seeking a Ph.D. in Informatics and Big Data Analytics will enter today’s most dynamic and high demand career fields with a unique skillset that adds value to any organization/enterprise. Because contemporary organizations are growing in size, complexity and data-reliance, the job prospects are very encouraging. Most students pursuing a Ph.D. are looking to advance their careers. Informatics and Big Data Analytics is a field that is flexible, growing, and built on innovation.

The proposed Ph.D. should appeal not only to students seeking academic jobs, but also to aspiring industry innovators and leaders in the public and private sectors. More organizations are building their “digital” capabilities. Our graduates will be prepared to lead their teams and to develop programmatic strategies, beyond specific data analysis decisions. With a blend of data/information and sector-specific expertise, they will be prepared to connect and translate the information needs of executive decision makers with the data analyses produced by mathematicians and statisticians. They also will be well-positioned to develop the next generation of information tools. It is an ideal “career enhancement” path for data/information professionals.

Many doctoral programs have far more applicants than they can accommodate. University of Florida advised us that they receive well over 1,000 applicants annually to their three doctoral programs (Computer Science, Computer Engineering, and Human-Centered Computing), and accept only about 30. Their Human-Centered Computing (HCC) program (the only other program in Florida using the “Informatics” CIP code) is growing rapidly and currently has over 30 students (of the roughly 140 total doctoral students).

Recent focus group discussions conducted at various college-sponsored events have found high-levels of interest for a Ph.D. program in Informatics and Big Data Analytics. These focus groups found that many wanted to advance in their current occupation. For example, at one state-wide event, there were 16 different inquiries about the proposed Ph.D. program by those holding a degree in Information Science, with a quarter of the respondents being current students. At a recruitment event in September, a majority of those questioned about the possibility of enrolling in the proposed Ph.D. program answered positively. During another event in Orlando, recruitment and outreach interviews revealed substantial interest in an Informatics and Big Data Analytics Ph.D. program. In a Spring 2019 survey of 47 students enrolled in USF’s M.S. in Business Analytics & Information Systems program, 24 of the surveyed students indicated a strong interest in pursuing this proposed doctoral program, if offered. Many of the students who chose the M.S. in Business Analytics and Information Systems program are seeking careers in the big data and analytics areas and would be candidates to recruit for a Ph.D. program such as this.

The proposed Ph.D. program is likely to be a platform for advancement and career development among professionals already working in related positions. Recent studies show that people with graduate degrees have higher earnings, in fact more than a third
higher, and better prospects for employment than those with bachelor’s degrees. In conclusion, data suggests that there is a high level of interest in both our current student body and industry in general for a program that can deliver the skills necessary to succeed at a high level in all sectors of the economy.

C. If substantially similar programs (generally at the four-digit CIP Code or 60 percent similar in core courses), either private or public exist in the state, identify the institution(s) and geographic location(s). Summarize the outcome(s) of communication with such programs with regard to the potential impact on their enrollment and opportunities for possible collaboration (instruction and research). In Appendix C, provide data that support the need for an additional program.

There are no other Ph.D. in Informatics and Big Data Analytics programs in the State of Florida in either public or private institutions. There is a doctoral program in Human-Centered Computing (HCC) at the University of Florida that uses the same CIP code 11.0104. That program is in the College of Engineering, Department of Computing & Information Science & Engineering. We have reached out to the director of that program to discuss the differences between the HCC program and our proposed Ph.D. in Informatics and Big Data Analytics. It was determined that the programs do not replicate one another in any way. The HCC program has a focus on human-computer interaction and design of user-centered technologies and innovations. Its core has a stronger focus on software and computer engineering, even though the program was designed to meet the need for specialized expertise that has not traditionally been found in computer science and engineering programs.

While our Ph.D. in Informatics and Big Data Analytics is certainly human-oriented, it focuses more on the human-information/data interaction and supporting human decision-making, innovation, and knowledge discovery. There is certainly a technical emphasis in our program, but we do not presume to approach these at the same level as the HCC program and likely will emphasize other research methodologies, frameworks, and epistemological assumptions.

There is another doctoral program in the state of Florida with a similar name. The University of Central Florida (UCF) has recently implemented a Ph.D. in Big Data Analytics. It is important to note that that program is being offered in a different CIP code (CIP Code 27.0501). UCF’s program is housed in the Department of Statistics and draws almost exclusively upon courses and faculty from the statistics department and appears to be well designed with a strong emphasis on statistical computing, sharing the CIP code with two other existing Ph.D. in Statistics (CIP 27.0501), offered by UF and FSU. In contrast, our proposed Ph.D. program is interdisciplinary in its design and it blends skills and expertise from many different departments and colleges, such as Mathematics and Statistics, Computer Science and Engineering, Psychology, Health and Business and integrates the human/informatics component with big data analytics. We reached out to the Chair of the Department of Statistics at UCF and shared our program structure. The Chair responded indicating that they will be happy to work with us on any collaboration opportunities related to this program.

D. Use Table 1 in Appendix A (1-A for undergraduate and 1-B for graduate) to categorize projected student headcount (HC) and Full Time Equivalents (FTE) according to primary sources. Generally undergraduate FTE will be calculated as 30 credit hours per year and graduate FTE will be calculated as 24 credit hours per year. Describe the rationale underlying enrollment projections. If students within the institution are expected to
change majors to enroll in the proposed program at its inception, describe the shifts from
disciplines that will likely occur.

Initially, our goal is to admit 4 students annually in the first two years, and then 5 students
annually from year three onward. Assuming a three-year completion for the 72 credits hours
required this will amount to, from year five onward, 15 students enrolled in the program,
graduating at the rate of 5 students per year. These students will be actively working with
faculty across colleges on interdisciplinary research papers and grants and we are, therefore,
intentionally limiting the program size to ensure early success. Once the program is well-
established the university will look to expand the program based on demand and resource
availability.

We are initially targeting four categories of applicants: those who have completed a degree
program at USF, students who have completed a degree program at any other state university,
out of state students and international students. We are doing so because we have many related
undergraduate and master’s programs at USF and other state universities in STEM areas that
have students who will be trained well to enter our program. Hence across STEM
undergraduate and STEM graduate programs we will have a talented pool of in-state students
to whom we can market this program. In addition, our current STEM graduate programs
receive over a thousand applications from international students today and some of them will
certainly be good fits for a Ph.D. We are therefore confident that out of state and international
students will also find this attractive and we expect to recruit from those pools as well. We are
also looking to recruit potentially from those in the workforce who are looking for a Ph.D. to
advance their careers. In the Muma College of Business it is common for departments such as
Accountancy and Information Systems to recruit such doctoral students and the college
therefore has the experience to seek students looking for doctoral degrees to advance their
professional careers.

The unique nature of the degree program means we do not expect students to shift from one
major to the new program. We do feel the program will attract those with master’s level degrees
looking for a doctorate that will enable them to move into high-demand big data analytics
positions in industry or in academia.

E. Indicate what steps will be taken to achieve a diverse student body in this program. If the
proposed program substantially duplicates a program at FAMU or FIU, provide, (in
consultation with the affected university), an analysis of how the program might have an
impact upon that university’s ability to attract students of races different from that which
is predominant on their campus in the subject program. The university’s Equal
Opportunity Officer shall review this section of the proposal and then sign and date
Appendix B to indicate that the analysis required by this subsection has been completed.

We will work with our graduate applications personnel and doctoral committee to ensure that
we advertise our program in a way that reaches a broad and diverse audience. USF and the
Muma College of Business have a long tradition of developing diversity within their programs’
content, structure, student body, and faculty. This is evident in our involvement in diversity
across the professions and disciplines, and is articulated explicitly within the Muma College of
Business’s diversity policy and strategic plan (www.usf.edu/business/about/policies.aspx). We
do not consider this goal solely in terms of the number of students or faculty representing
certain racial or ethnic backgrounds or gender identities, but as a matter of principle manifested
in our commitment to enhancing the workforce and fostering understanding within the diverse communities of information professionals served.

For example, the Corporate Mentors program strives to recruit and support students who are the first in their families to attend college. The Ph.D. Project, the McKnight Doctoral Fellowship Program and other similar organizations are utilized to increase doctoral student diversity. MCOB seeks to include diversity in faculty recruitment because of the enrichment a diverse faculty brings to the curriculum and the experience that all students obtain by being exposed to faculty with diverse backgrounds and viewpoints.

The College recognizes that diversity functions best in a climate of tolerance and respect for all and strives to foster such an environment.

MCOB promotes diversity of ideas through a variety of classes that are required of all students. For both undergraduate and MBA students, the core curricula, supplemented by major and elective courses, will ensure that diversity concepts, divergent viewpoints and global issues are addressed and lead to a rich learning experience. Diversity of ideas is also enhanced by a variety of faculty and student backgrounds.

MCOB is committed to the presentation of diverse concepts and ideas in the classroom and to increasing the accessibility of international experiences for students. This will be achieved through a variety of efforts. These efforts include: 1) enriching our curriculum with specific content and courses on global issues; 2) increasing study-abroad participation, international scholarships and internships that afford students an opportunity to learn and work in organizations around the world; 3) encouraging faculty to conduct research on globalization and be globally engaged; and 4) creating a welcoming environment for international students and scholars as well as focused exchange of ideas with professionals in the business community. The College is committed to increasing its own visibility and the visibility of its students to local and national organizations that promote global business.

III.  Budget

A. Use Table 2 in Appendix A to display projected costs and associated funding sources for Year 1 and Year 5 of program operation. Use Table 3 in Appendix A to show how existing Education & General funds will be shifted to support the new program in Year 1. In narrative form, summarize the contents of both tables, identifying the source of both current and new resources to be devoted to the proposed program. (Data for Year 1 and Year 5 reflect snapshots in time rather than cumulative costs.)

We are expecting an interdisciplinary faculty team of eight faculty (listed in Table 4) spanning the Colleges of Business, Arts & Sciences, Engineering and Public Health to be closely involved with the program and to work with the students in research and advising. All the faculty costs listed in Table 4 are based on the FTEs of these specific faculty. We are expecting a small amount of staff support in terms of supporting applications and other logistical issues for a total of approximately 100 hours per year, which is shown in the A&P salaries component. All the coursework for this program are from our existing Ph.D. and graduate programs at USF and we do not envision any new classes being created to support the program, which will make this an efficient program to launch. We have an extensive offering of doctoral and other graduate courses across all four of our colleges and are putting in place an internal agreement that will
ensure that there will be capacity in those classes to support the Ph.D. students in this program. (It should be noted that the “newly proposed” courses mentioned in VIII. Curriculum, Section E. below topics faculty have been teaching for a few semesters but will be requesting dedicated course numbers.)

We are anticipating supporting three students through assistantships from the Muma College of Business’ auxiliary funds. Currently we have an active Center for Analytics and Creativity that offers non-degree programs and a Doctor of Business Administration program that both bring in steady revenues that can support the three assistantships in steady state. In addition, we expect that there will be grant-supported students based on the research active faculty from the different colleges that are part of this program (many of whom have NSF/NIH funding for research). We also have several programs that require teaching assistants who are highly skilled in big data, and Ph.D. students in this program will be excellent candidates for such assistantships. For example, the Department of Computer Science and Engineering, College of Engineering, currently has several teaching assistant positions available due to program growth. The Chair has indicated that the Department will consider students in this program for these positions. Because we do not have a specific number yet from these sources, we have not included these in the budget tables, but do want to bring this up in the narrative here so that reviewers will be aware of a much broader potential base of support for these doctoral students.

B. Please explain whether the university intends to operate the program through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-level tuition. Provide a rationale for doing so and a timeline for seeking Board of Governors’ approval, if appropriate. Please include the expected rate of tuition that the university plans to charge for this program and use this amount when calculating cost entries in Table 2.

The university does not intend to operate the program through continuing education on a cost-recovery basis, nor will it seek approval for a market-based tuition rate or establish differentiated graduate-level tuition.

C. If other programs will be impacted by a reallocation of resources for the proposed program, identify the impacted programs and provide a justification for reallocating resources. Specifically address the potential negative impacts that implementation of the proposed program will have on related undergraduate programs (i.e., shift in faculty effort, reallocation of instructional resources, reduced enrollment rates, greater use of adjunct faculty and teaching assistants). Explain what steps will be taken to mitigate any such impacts. Also, discuss the potential positive impacts that the proposed program might have on related undergraduate programs (i.e., increased undergraduate research opportunities, improved quality of instruction associated with cutting-edge research, improved labs and library resources).

The budget in Table 2 reflects the effort from the eight primary faculty involved in this program. However, there should be no impact on other programs because this program reuses existing courses in our graduate programs and does not take these faculty away from any of the current courses that they are teaching. (It should be noted that the “newly proposed” courses mentioned in VIII. Curriculum, Section E. below topics faculty have been teaching for a few semesters but will be requesting dedicated course numbers.) The faculty involved in this program are also able to take on advising roles for Ph.D. students in this program without
compromising their current research supervisory roles, given the size of this program (12 students) in steady state.

D. Describe other potential impacts on related programs or departments (e.g., increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the proposed major).

None noted.

E. Describe what steps have been taken to obtain information regarding resources (financial and in-kind) available outside the institution (businesses, industrial organizations, governmental entities, etc.). Describe the external resources that appear to be available to support the proposed program.

The proposed program can be run based on the Muma College of Business’ current operating budget. In the proposal we have also highlighted various agencies (NSF, NIH, DoE, DoD etc.) that provide research funding. The Muma College of Business also has an extensive network of companies that are currently funding student projects through practice centers. In the last eight years we have had over thirty companies fund over a hundred such projects involving undergraduate and master’s students. We will reach out to these companies to explore funding opportunities for Ph.D. students as well.

IV. Projected Benefit of the Program to the University, Local Community, and State

Use information from Tables 1 and 2 in Appendix A, and the supporting narrative for “Need and Demand” to prepare a concise statement that describes the projected benefit to the university, local community, and the state if the program is implemented. The projected benefits can be both quantitative and qualitative in nature, but there needs to be a clear distinction made between the two in the narrative.

The Ph.D. in Informatics and Big Data Analytics will significantly benefit the University, the Tampa Bay region and the State of Florida in a number of ways.

Quantitative Benefits

- Placement: Ph.D. in Informatics and Big Data Analytics graduates will be successfully employed in industrial leadership and research positions, national laboratories, government agencies and academic positions.

- Increased Doctoral Degrees Granted: A targeted performance-based metric at USF and within the SUS is to increase STEM graduate degrees. By Year 5, we estimate that the program will produce a net increase in new doctoral degrees, and should continue to grow each year.

- Increase the Research Funding: To be successful and compete for the best students, the Ph.D. in Informatics and Big Data Analytics must be built on a robust research infrastructure that provides funding and research opportunities. The Muma College of Business has significantly increased its application for external funding in the past five
years. A research-active doctoral program will greatly enhance our ability to seek and secure external funding from key agencies and organizations.

Qualitative Benefits

- Meeting a Critical Workforce Need: The proposed doctoral program is designed to help meet market needs and student demand for graduate training that prepares people for well-paying jobs in the Tampa Bay area, the I-4 Technology Corridor, and throughout Florida’s knowledge economy. The program not only prepares future academics for positions at major universities, but we have assessed and targeted the skill sets that Florida’s employers want, increasing USF’s intellectual capital in the community.

- Graduate Education Track for STEM Students: The program is interdisciplinary and well-suited to attracting a wide variety of interdisciplinary STEM graduates, as well as others from social sciences and humanities.

- Enhance Interdisciplinarity: The proposed program fosters collaboration across several USF colleges (Arts & Sciences, Business, Engineering; and Public Health). This program is, therefore, very timely given the emphasis on breaking down boundaries to enable cross functional collaboration that is being stressed nationwide.

V. Access and Articulation – Bachelor’s Degrees Only

A. If the total number of credit hours to earn a degree exceeds 120, provide a justification for an exception to the policy of a 120 maximum and submit a separate request to the Board of Governors for an exception along with notification of the program’s approval. (See criteria in Board of Governors Regulation 6C-8.014)

Not Applicable.

B. List program prerequisites and provide assurance that they are the same as the approved common prerequisites for other such degree programs within the SUS (see link to the Common Prerequisite Manual on the resource page for new program proposal). The courses in the Common Prerequisite Counseling Manual are intended to be those that are required of both native and transfer students prior to entrance to the major program, not simply lower-level courses that are required prior to graduation. The common prerequisites and substitute courses are mandatory for all institution programs listed, and must be approved by the Articulation Coordinating Committee (ACC). This requirement includes those programs designated as “limited access.”

If the proposed prerequisites are not listed in the Manual, provide a rationale for a request for exception to the policy of common prerequisites. NOTE: Typically, all lower-division courses required for admission into the major will be considered prerequisites. The curriculum can require lower-division courses that are not prerequisites for admission into the major, as long as those courses are built into the curriculum for the upper-level 60 credit hours. If there are already common prerequisites for other degree programs with the same proposed CIP, every effort must be made to utilize the previously approved prerequisites instead of recommending an additional “track” of prerequisites for that CIP. Additional
tracks may not be approved by the ACC, thereby holding up the full approval of the degree program. Programs will not be entered into the State University System Inventory until any exceptions to the approved common prerequisites are approved by the ACC.

Not Applicable.

C. If the university intends to seek formal Limited Access status for the proposed program, provide a rationale that includes an analysis of diversity issues with respect to such a designation. Explain how the university will ensure that Florida College System transfer students are not disadvantaged by the Limited Access status. NOTE: The policy and criteria for Limited Access are identified in Board of Governors Regulation 6C-8.013. Submit the Limited Access Program Request form along with this document.

Not Applicable.

D. If the proposed program is an AS-to-BS capstone, ensure that it adheres to the guidelines approved by the Articulation Coordinating Committee for such programs, as set forth in Rule 6A-10.024 (see link to the Statewide Articulation Manual on the resource page for new program proposal). List the prerequisites, if any, including the specific AS degrees which may transfer into the program.

Not Applicable.

INSTITUTIONAL READINESS

VI. Related Institutional Mission and Strength

A. Describe how the goals of the proposed program relate to the institutional mission statement as contained in the SUS Strategic Plan and the University Strategic Plan (see link to the SUS Strategic Plan on the resource page for new program proposal).

USF’s mission is to “deliver competitive undergraduate, graduate, and professional programs, to generate knowledge, foster intellectual development, and ensure student success in a global environment.”

The Informatics and Big Data Analytics Ph.D. will align very closely with the following USF mission goals:

- “Student access, learning, and success through a vibrant, interdisciplinary, and learner-centered research environment incorporating a global curriculum.”

The Informatics and Big Data Analytics Ph.D. is highly interdisciplinary in nature and it will allow students to span learning and research across campus.

- “Research and scientific discovery to strengthen the economy, promote civic culture and the arts, and design and build sustainable communities through the generation, dissemination, and translation of new knowledge across all academic and health-related disciplines.”
With its interdisciplinary design of several academic and health-related disciplines, our proposed program will bring together faculty from multiple departments as part of interdisciplinary dissertation and advisory committees to work with doctoral students in this program. The doctoral students will, therefore, be the catalyst for many new interdisciplinary research initiatives in the big data analytics area. This will result in the generation, dissemination and translation of new research, and it is conceivable that some of this work could result in patents and other types of innovation as well.

- “Partnerships to build significant locally- and globally-integrated university-community collaborations through sound scholarly and artistic activities and technological innovation.”

The Informatics and Big Data Analytics Ph.D. will allow USF to expand faculty and student engagement with community partners. Since one of the program’s goal is for students to tackle and solve real-world, large-scale analytics projects, ideally in collaboration with industry partners, it will offer more opportunities for student participation and facilitate collaborations that add value to the state and local economies. USF’s increased productivity will help Florida’s employers prosper and grow through knowledge transfer and a steady stream of qualified graduates to support Florida’s knowledge economy.

- “A sustainable economic base to support USF’s continued academic advancement.”

As pointed out in Section III, this program is designed to be very lean and sustainable in steady-state.

While this program is an interdisciplinary effort across several different colleges at USF, it will be housed inside the Muma College of Business. The mission of the Muma College of Business is to “emphasize creativity and analytics to promote student success, produce scholarship with impact, and engage with all stakeholders in a diverse global environment.”

The proposed program aligns very strongly with the mission of the Muma College of Business with its emphasis on analytics and creativity. In fact, the proposed program on Big Data Analytics and Informatics has at its core the creation and dissemination of analytical thought; but it also aligns very strongly with creativity in that bringing together ideas and thoughts from different disciplines allows for innovation and new ideas to bridge across formerly stand-alone disciplines.

B. Describe how the proposed program specifically relates to existing institutional strengths, such as programs of emphasis, other academic programs, and/or institutes and centers.

The proposed Informatics and Big Data Analytics Ph.D. relates very closely to existing strengths both at the university level as well as at the level of the participating colleges.

At the university level, USF’s strategic plan (www.usf.edu/research-innovation/documents/about-usfri/research-strategic-plan.pdf) identifies six specific areas of focus and strength. Among those six areas, data science, including data analytics, financial data analysis, pattern recognition in big data, digital visualization, electronic health records, health informatics and digital humanities is one specific area of institutional strength. For instance, data science is already transforming a multitude of fields at USF such as health diagnosis,
energy, sustainable health, environment (including marine) and cybersecurity. The USF Health Informatics Institute is the data and technology coordinating hub for nearly every major Type 1 diabetes clinical trial worldwide, and it is the epicenter for global juvenile diabetes research. USF is also applying advanced visualization technologies to address such problems in the humanities as the worldwide preservation of cultural heritage.

At the college level, the Muma College of Business (MCOB) also has core strengths in analytics and big data. Many existing programs in the MCOB are driven by analytics. At the graduate level, these are:

- A new online M.B.A. with a Data Analytics concentration that was launched in 2017
- M.S. in Business Analytics and Information Systems, a program that now offers eight advanced graduate level courses in analytics
- A new “weekend” M.S. in Business Analytics and Information Systems program targeted a working professionals where each course is offered in a hybrid manner with 50% online and the other 50% over three (full day) Saturday sessions in a 6 week period. The very first cohort started in Fall 2017 (with 24 students enrolled).
- A 12-credit graduate certificate in Analytics and Business Intelligence which also provides students a SAS Approved USF Certificate in Analytics & Business Intelligence
- A 12-credit graduate certificate in Compliance, Risk and Anti-Money Laundering (AML) that combines principles from analytics, accounting and risk for the AML context.
- A unique “Citizen Data Science” program delivered at Jabil Inc. for its employees where nine different faculty teach 1 or 2 Fridays. The unique aspect of the program is that all Jabil employees come in with real projects from their company which they carry through with them as they participate in this program.

The Muma College of Business also houses the Center for Analytics and Creativity. The Center organizes major events each year to help our business community stay at the forefront of big data and analytics.

The Center organized the inaugural Florida Business Analytics Forum in April 2016. This event brought over 250 industry participants from over 100 organizations to USF for half a day featuring three expert presentations and a panel discussing and presenting cutting edge ideas. The Florida Business Analytics Forum also showcased research in analytics at USF. Following the presentations and panel, 19 research posters were presented as part of a poster session for the attendees. The research posters were from a variety of colleges at USF including Business, Engineering and Arts & Sciences. In addition to educating our Florida business executives on the latest trends in analytics, this event also helped educate our business community on the latest research in this area from USF.

The Center also helped organize two “Big Data Days” at USF in Fall 2016 and Fall 2017. This is an event aimed at helping Hillsborough Country K-12 students understand big data and explore the opportunities for pursuing education and careers related to this. The Center Director presented to over four hundred students from nine area high schools. The presentation focused on helping the students understand analytics and big data along with the many ways in which analytics and big data can be used by companies. Students also got to participate in some interesting hands-on exercises that illustrated the power of analytics (such as designing a movie recommender system based on films that their classmates like).

Recently, the Center partnered with the Tampa Bay Partnership and organized the first “State of the Region” event, in which the USF team presented a novel approach using big data and
visualization to characterize the region’s economy. There were over 200 attendees from leading businesses in the area who participated in this event. Plans are underway to make this an annual event.

Hence the program fits well with significant strengths in related areas at USF.

C. Provide a narrative of the planning process leading up to submission of this proposal. Include a chronology in table format of the activities, listing both university personnel directly involved and external individuals who participated in planning. Provide a timetable of events necessary for the implementation of the proposed program.

Growing demand for graduate training in Informatics and Big Data Analytics has led to this interdisciplinary effort led by faculty across four different USF colleges: the College of Arts and Sciences, the College of Engineering, the College of Public Health and the Muma College of Business. A pre-proposal which originated within the College of Arts and Sciences expanded in its scope to a fully interdisciplinary effort with faculty from the Department of Mathematics and Statistics, the Department of Psychology, the Department of Computer Science and Engineering, the Department of Industrial and Management Systems Engineering, the Department of Epidemiology and Biostatistics, and the Department of Information Systems and Decision Sciences. The steering committee consisting of Drs. Beckstead, Das, Jank, Padmanabhan, Sarkar, Skrzypek and Stark was formed in the Fall of 2018 by the Provost’s Office and met on a weekly basis during the Spring of 2019 in order to discuss curricular and administrative aspects of the proposed program.

| Planning Process and Events Leading to Implementation |
|-------------------|-----------------------|--------------------------------------------------|
| Date              | Participants           | Planning Activity                                |
| Fall 2017         | USF System Representatives | Initial discussion on creating a Ph.D. in Informatics |
| Fall 2017         | Department Faculty     | iSchool faculty approved the pre-proposal         |
| October 2017      | College Faculty        | College of Arts and Sciences Curriculum Committee approved the pre-proposal |
| November 2017     | University Graduate Council (GC) | GC approves the pre-proposal                     |
| January 2018      | USF System Academic Program Advisory Council (APAC) | Pre-proposal approved                           |
| February 2018     | Council of Academic Vice Presidents (CAVP) | No concerns expressed                          |
| Fall 2018/Spring 2019 | USF Faculty               | Full proposal developed                          |
| February 2019     | MCOB Doctoral program committee | Full proposal approved                           |
| February 2019     | MCOB Faculty            | Full proposal approved                           |
| April 2019        | University Graduate Council | New degree proposal approved                    |
| April 2019        | APAC                   | New degree proposal approved                     |
| May 2019          | Academics & Campus Environment (ACE) Committee | Submitted the new degree proposal for approval |
VII. Program Quality Indicators - Reviews and Accreditation

Identify program reviews, accreditation visits, or internal reviews for any university degree programs related to the proposed program, especially any within the same academic unit. List all recommendations and summarize the institution's progress in implementing the recommendations.

At this point in time, there are no organizations that accredit Ph.D. programs in Informatics and Big Data Analytics.

The Muma College of Business is an AACSB accredited program that had an accreditation visit in 2018. The college was reaccredited with no actionable recommendations listed in the reaccreditation report.

However, we plan on performing regular internal reviews and assessments on the proposed program. The MCOB performs regular annual reviews of all its degree programs. We anticipate that the assessment items will include metrics for:

- assurance of learning outcomes;
- research productivity and research with impact;
- grant funding;
- student success, including placement;
- business and community engagement.

VIII. Curriculum

A. Describe the specific expected student learning outcomes associated with the proposed program. If a bachelor's degree program, include a web link to the Academic Learning Compact or include the document itself as an appendix.

The Ph.D. in Informatics and Big Data Analytics is built on an interdisciplinary infrastructure that draws from expertise across USF. Students entering the program will take core courses during the first two years of study. These core courses reach across several different colleges and include coursework in Mathematics and Statistics, Computer Science and Engineering, Psychology, Public Health and Business. During these core courses, the foundations for a true
interdisciplinary “boundary-spanner” expert are obtained. In addition to core courses, students will also have the ability to take elective courses depending on their specific areas of interest. After the second year of study, students will complete their qualifying exam. During this exam, students will report on the results of a real-world, large-scale data analytics project in the form of a research paper. The paper is submitted and reviewed by a committee of interdisciplinary faculty members. These faculty will report back with a set of comments and concerns which the student subsequently will defend in the form of an oral presentation. After successful completion of the qualifying exam, the student will be admitted to candidacy, select a dissertation committee and eventually defend the dissertation in front of that committee. Thus, the program is designed around a series of core principles for developing new scholars. First, research theory and practice are central to the program and highlighted in the evaluation of students. Also, students are expected to develop, via their program of study, expertise that builds on an informatics and big data analytics foundation but that will allow them to be impactful in particular areas. This suggests developing the skills necessary to be able to collaborate with scholars from other disciplines. We also believe strongly in the need to build scholars who can not only thrive in academic settings, but who are equally adept at interacting in productive ways with those in outside organizations, public and private.

By completing the proposed Ph.D. in Informatics and Big Data Analytics, graduates will achieve the following learning outcomes:

1. Develop a mastery of theory and knowledge in the content areas of the field of informatics and big data analytics;
2. Contribute to the discipline by producing original, rigorous scholarship that contributes new knowledge, processes, and strategies to address key problems in society and specific domains;
3. Demonstrate the ability to address real-world big data analytics problems using state of the art methodologies and tools;

B. Describe the admission standards and graduation requirements for the program.

Students admitted to the Ph.D. in Informatics and Big Data Analytics should hold a bachelor’s degree from a regionally accredited institution. We expect that most students will have a master’s degree, as well, in an area relevant to the focus they anticipate pursuing within the Ph.D. program. While a mathematics, statistics, computer science or related degree is not required for admission, students must have had some level of training and/or experience in technology, including areas such as computer programming through data structures, database management systems, linear algebra, and networking and graph theory. Each student’s application will be reviewed to determine their level of technical qualifications to pursue the Ph.D. in Informatics and Big Data Analytics. If deficiencies are noted, then additional suggested coursework may be required prior to admission.

Minimum Admission Standards

- GRE scores are to be strong and competitive and will be reviewed holistically in the context of the overall application package
- TOEFL scores or other applicable English language skills as put forward by USF graduate school
- Personal statement of purpose/interest
- 3 Letters of recommendation
Graduation Requirements

- 41-42 hours of core coursework (This can be broken down into 6 credits of a common core and 35 or 36 credits from specific categories noted below. One category (Ethics) has both a two credit and three credit course option, which is why the total adds up to either 35 or 36 credits, plus the 6 credits from the common two courses.)
- Minimum of 21 dissertation hours
- Minimum of 10 hours from the independent study/practicum and electives.
- Minimum of 72 semester hours total
- Pass a qualifying examination
- Produce an acceptable research portfolio
- Defend dissertation proposal
- Defend the final dissertation

C. Describe the curricular framework for the proposed program, including number of credit hours and composition of required core courses, restricted electives, unrestricted electives, thesis requirements, and dissertation requirements. Identify the total numbers of semester credit hours for the degree.

Ph.D. in Informatics and Big Data Analytics Curricular Framework

A minimum of 72 credit hours post-bachelor’s degree
A minimum of 72 semester hours beyond the bachelor’s degree is required. This includes 21 hours of dissertation. A minimum of 60 credit hours must be completed at the University of South Florida.

Foundation Courses
Students are expected to have completed coursework in the foundation areas of data structures, linear algebra and graph theory prior to entering the program. Students who have not completed some or all of these foundation courses need to demonstrate proficiency in these areas by either completing related coursework at USF such as
- COP 4530 — Data Structures
- MAS 3105 — Linear Algebra
- MAD 4301 — Introduction to Graph Theory

or equivalent (such as a Coursera Certificate) pre-approved by the program director before registration in the program’s core courses.

Core Courses
The core courses are designed to provide a strong and multidisciplinary background in informatics and big data analytics and are required of all students. A maximum of 12 credit hours of coursework from any previous master’s degree can count for required core courses below as long as those previous courses are equivalent to specific courses that are required in this program and the student has earned a grade of B (3.0) or better in each course. Any such request will have to be made in the first semester of the program and will have to be approved by the Doctoral Program Committee of this program.
Every student is required to take the following **two common core** courses:
- COT 6405 Intro to Theory of Algorithms
- QMB 7565 Intro to Research Methods

The curriculum is divided into three different perspective areas from which students are required to gain competency. Within each perspective there are **required course categories** identified that help students attain the required competency for the perspective. Students are provided with course selections in each category that are to be used in developing their program of study.

<table>
<thead>
<tr>
<th>Perspective</th>
<th>Course Category</th>
<th>Core Courses (choose one from each course category)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human</td>
<td>Ethics &amp; Privacy</td>
<td>GEB 6445 Social, Ethical, Legal Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GEB 6457 Ethics, Law and Sustainable Business Practices</td>
</tr>
<tr>
<td></td>
<td>Cognitive Biases &amp; Impact on Modeling, Decision Making</td>
<td>EXP 7099 Graduate Seminar in Experimental Psychology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXP 6608 Cognitive Psychology</td>
</tr>
<tr>
<td></td>
<td>Data Communication and Storytelling</td>
<td>*ISM 6402 Data Visualization for Storytelling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*CIS XXX Data Visualization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*CIS XXX Affective Computing</td>
</tr>
<tr>
<td></td>
<td>Causality and Experimentation</td>
<td>EDF 7474 Applied Multilevel Modeling in Education</td>
</tr>
<tr>
<td></td>
<td>(2 courses required from this category)</td>
<td>ESI 6247 Statistical Design Models</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*STA 6205 Design of Experiments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INP 6935 Topics in Industrial-Organizational Psychology (Organizational Research Methods)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSY 6217 Research Methods and Measurement (Psychometrics)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHC 6020 Clinical Trials: Design, Conduct and Analysis</td>
</tr>
<tr>
<td>Computational</td>
<td>Data Mining</td>
<td>CAP 5771 Data Mining</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ISM 6136 Data Mining</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESI 6635 Advanced Analytics I</td>
</tr>
<tr>
<td></td>
<td>Machine Learning</td>
<td>*ISM 6543 Data Science Programming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*EIN XXXX Predictive Analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*CIS XXXX Machine Learning</td>
</tr>
<tr>
<td></td>
<td>Artificial Intelligence &amp; Deep Learning</td>
<td>CAP 5625 Introduction to AI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*CIS XXXX Neural Networks/Deep Learning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*EIN 6691 Deep Learning Analytics</td>
</tr>
<tr>
<td></td>
<td>Databases/Big Data</td>
<td>ISM 6218 Advanced Database Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ISM 6562 Big Data for Business Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*CIS XXXX Advanced Databases</td>
</tr>
</tbody>
</table>
### Statistical

| Mathematics/Linear Algebra | MAS 5145 Advanced Linear Algebra  
STÁ 6746 Multivariate Analysis |
|-----------------------------|---------------------------------|
| Probability/Statistics      | STA 5166 – Statistical Methods I  
STA 5446 – Probability Theory I  
STA 5326 – Mathematical Statistics I |
| Optimization                | MAP 6205 Control Theory and Optimization  
ESÍ 6491 Linear Programming and Network Optimization  
ESÍ 6448 Integer Programming  
*EIN XXXX Nonlinear Optimization and Game Theory  
*EIN 6493 Multi-Objective Optimization |

*Newly proposed course.

The “human perspective” brings in ethical use of data, critical thinking, communication and decision-making aspects to this curriculum. Within this the category of causality and experimentation category requires students to both understand the distinction between causal models and predictive models, as well as appreciate the importance of the use of experimentation to evaluate if systems are working as intended. Hence, we require students to take two courses from this category to ensure that they have adequate depth to understand both these aspects. The “computational perspective” brings in data, algorithmic and computational thinking that collectively drive many of the computational methodologies for big data analytics. The “statistical perspective” brings in important mathematical, statistical and optimization foundations that drive many of the statistical methodologies used for big data analytics.

**In all, students are expected to complete all 14 core courses (=2 common core + 12 required courses within the categories noted above) during their first 4 semesters.** While students are expected to take at least one ethics course (from the list of available ethics and privacy core courses above), they are also expected to apply these ethics principles throughout their entire study and in particular to their dissertation work.

**Elective Courses and Independent Study/Practicum**

In addition to the core courses students are also expected to take elective courses. The doctoral advisory committee will assist the student in identifying a suitable list of elective courses. Students are expected to take elective courses, and one independent study/practicum course for a total of 10 credit hours. In the practicum course (where students register for an independent study), students will solve a real-world big data analytics project. This real-world big data analytics project could be done jointly with an industry partner as part of an internship.

**Cohort-Based Activities**

Given that this is an interdisciplinary program where doctoral students may branch out in different directions (both in terms of course choices they make as well as in terms of the domain of their research), the program includes activities required of all students that help foster, maintain and leverage a strong sense of community as a “cohort.” These include:

- Joint research seminars. Doctoral students in this program will participate actively in not-for-credit research seminars as a cohort on a regular (biweekly) basis. Attendance and
participation in such seminars will be included in the student’s progress toward degree annual evaluation. Students will be permitted to register for a three credit independent study course to obtain credit for attending these joint research seminars should they wish to (this option will be useful for those who need the flexibility this affords to complete course work sooner).

- Advisory committee meetings. Students will meet with their advisory committee (comprised of interdisciplinary faculty across different colleges) every semester. There will also be one combined meeting every year to bring all students together to share experiences and current research plans, so that the feeling of a cohort is strengthened while allowing students to learn from each other’s experience in the program.

**Teaching Component**
We strongly encourage our students to obtain teaching expertise during their course of study, especially those who intend to apply for an academic position. Applicants for aim for academic positions will be encouraged to apply for assistantships where teaching is a component.

**Qualifying Examination**
The exam will be based on a completed research paper and accompanying code written by the student on a big data analytics project. The paper and accompanying code for the analysis should be submitted to the committee on the date specified by the program director. The committee will review the work and provide a list of questions for the student to answer in written form. An oral examination will then be scheduled, where the student presents the paper and answers questions from the committee. The committee will evaluate the entire portfolio (paper, written responses, and the oral presentation) and make a determination of whether the student passes or fails the qualifying examination.

**Dissertation**
The Doctoral Program Committee will advise the student in selecting the dissertation committee to ensure that the committee is comprised of research active faculty who collectively have the balance of disciplinary and interdisciplinary expertise to guide the student in the chosen area of work. The Dissertation Committee consists of at least four faculty members and should include faculty from at least two different colleges. In order to emphasize the impact of the ethical use of data and impact on policy making we encourage the student to have at least one member of the dissertation committee who can help the student think critically from these perspectives. The dissertation committee will also assist students navigate through the interdisciplinary area of Big Data Analytics and help identify their appropriate academic community, publication outlets, or conferences.

**D. Provide a sequenced course of study for all majors, concentrations, or areas of emphasis within the proposed program.**

(Note: Since applicants who come in with a specialized master’s degree can transfer up to 12 credits of coursework, those students are likely to need four courses less than what is shown below in the table. Also, the table lists course categories, students can pick any course within the category as shown above in Section VIII.C.).
## Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summer</strong></td>
<td>Practicum</td>
<td>Research/Elective Course</td>
</tr>
</tbody>
</table>

### E. Provide a one- or two-sentence description of each required or elective course.

**GEB 6445 Social, Ethical, Legal Systems:**
A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.

**GEB 6457 Ethics, Law and Sustainable Business Practices:**
Examines ethical and legal responsibilities of business for triple bottom line performance of prosperity, social justice, and concern for the natural environment.

**CAP 5771 Data Mining:**
An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

**CAP 5625 Introduction to AI:**
Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

**ISM 6136 Data Mining:**
This course is designed for the MS in Information Systems graduate student and interested MBA students. The course covers the rapidly evolving data mining techniques that are becoming critical for customer relationship management and other applications.

**ISM 6218 Advanced Database Management**
This course covers core business database technologies. Topics include database design, transaction processing, parallelism, and distributed databases. Emerging business intelligence technologies are covered. A database system is used for projects.

ISM 6562 Big Data for Business Applications
The course will cover web application development for Business using various big data technologies such as No-SQL database, distributed file system, Map-Reduce, distributed caching, message handlers and big data search system.

ISM 6402 Data Visualization for Storytelling (newly proposed)
This course provides students an in-depth experience with storytelling and visualization. In the analytics journey, we start with the chaos of data and conclude with insights to produce better decisions. Data/Information visualization is widely used in several industries, including business, engineering, and media disciplines to help people analyze and understand what the data is telling us. The visualization field has grown exponentially over the last few years, and thus there are more tools available to help us quickly and efficiently create compelling ways to understand data.

ISM 6543 Data Science programming (newly proposed)
Data analytics techniques, tools and applications have become mainstream in variety of business, scientific, social and policy applications. This course will provide students an in-depth overview of machine learning techniques for analytics using Python as the programming language and students will learn to apply advanced machine learning techniques using Python. Students are expected to be familiar with at least one programming language and will be expected to learn Python independently in the course, as the focus will be on applying machine learning ideas in this platform, and not the language itself.

INP 6935 Topics in I-O Psychology (Organizational Research Methods)
Overview of problems in conducting organizational research. Topics include causality, designs, research ethics, research strategies, and threats to validity.

PSY 6217 Research Methods and Measurement (Psychometrics)
Covers principles and applications in measurement with emphasis on classical test theory and confirmatory factor analysis methods of scale design and evaluation. Also introduces item response theory (IRT) and some advanced statistical methods for analyzing data collected in various research contexts.

EXP 6608 Cognitive Psychology
A survey of the research dealing with higher memory, language, and the higher mental processes, including processes related to attention, perception, and decision-making.

EXP 7099 Graduate Seminar in Experimental Psychology (Cognitive Modeling)
Introduction to Cognitive Modeling and programming in the R language. Covers the basics of R (reading in data, manipulating, dataframes, plotting data, and some basic inferential tests), modeling (maximum likelihood estimation, goodness-of-fit statistics, and models selection metrics), and applications of frequently encountered models of response choice and reaction time, including Signal Detection Theory, the Ex-Gaussian model, the Linear Ballistic Accumulator, Bayesian memory models, and Neural Network models.

ESI 6635 Advanced Analytics I
This is an intermediate course to data science and analytics with specific topics on statistical inference and learning. This course will introduce concepts, techniques and derivation procedures of statistical inference and utilize them to assist understanding of statistical learning problems, e.g., classification, regression, clustering, etc.

ESI 6491 Linear Programming and Network Optimization
This course will be an intensive study of Linear Programming (LP) and Network Optimization problems. Both the general theory and characteristics of LP optimization problems as well as effective solution algorithms and applications are addressed.

ESI 6448 Integer Programming
Integer Programming problems are a subset of mathematical optimization problems in which some or all variables can only take integer values. The focus of this course is on Integer Linear Programs. The connection between Linear Programming and Integer Programming is explored. The major part of the course is designated for covering theoretical and algorithmic developments on solving (Mixed) Integer Programs.

ESI 6247 Statistical Design Models
Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems.

EIN 6691 Deep Learning Analytics (newly proposed)
The purpose of this course is to enable the student to gain an in-depth understanding of the processes and dynamics of New Venture Creation. It is further designed to examine the various components necessary to create, launch and grow a successful venture.

EIN XXXX Predictive Analytics (newly proposed)
This course provides an opportunity for students to gain a deeper understanding of data mining and predictive analytics. The concepts introduced in the course are accompanied by hands-on data analytics exercises using SAS. The course material is presented in a modular format and is structured around the Cross-Industry Standard Process Model for Data Mining (CRISP-DM).

EIN XXXX Nonlinear Optimization and Game Theory (newly proposed)
The first part will focus on theory and algorithms of nonlinear optimization. Topics include convex analysis, optimality conditions, Lagrangian duality, and numerical methods for unconstrained and constrained optimization problems. The second part will apply theory and algorithms of nonlinear optimization to equilibrium problems that arise in management science, transportation science, regional science, and economics. Theory and algorithms of variational inequalities and complementarity problems are used to analyze and compute equilibria in connection with nonlinear optimization. Topics include Nash equilibrium and leader-follower games.

EIN 6493 Multi-Objective Optimization (newly proposed)
The focus on the course will be more on an important subclass of multi-objective optimization problems, so-called multi-objective (mixed) integer linear programs. The course is mainly designed for covering recent theoretical and algorithmic developments on solving multi-objective (mixed) integer linear programs.

MAP 6205 Control Theory and Optimization
Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and pontryagin maximum principle.

MAS 5145 Advanced Linear Algebra
Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-ad joint operators and quadratic forms.

STA 6205 Design of Experiments (newly proposed)
An introduction to the areas of statistical design of experiments and response surface methodology that integrate statistical experimental design fundamentals, regression modeling techniques, and elementary optimization methods. Basic design principles, various classical and modern experimental designs, and analysis techniques and their implementation in statistical software such as JMP and R will be taught.

STA 6746 Multivariate Analysis
Multivariate normal distribution; its properties and inference; matrix random variables; multiple and partial correlation; discriminant analysis, principle components and factor analysis; multivariate ANOVA; analysis of covariance; applications using computers.

STA 5166 Statistical Methods I
Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

STA 5446 Probability Theory I
Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5326 Mathematical Statistics
Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

CIS XXXX Machine Learning (newly proposed)
Understand supervised machine learning methods and their application. Understand how to compare machine learning algorithms. Understand the trade-offs between algorithms and potential performance and time. Be able to read current literature on machine learning. Understand clustering unlabeled data.

CIS XXXX Advanced Databases (newly proposed)
This course covers the principles and practice of database systems, with a focus on the fundamentals of modern database management systems. Implementation projects will be based on C/C++ languages.

CIS XXXX Intro to Hadoop and Big Data (newly proposed)
This is a comprehensive course covering the Hadoop file system, Hadoop cluster architecture, MapReduce, Spark and the Hadoop ecosystems.

CIS XXXX Data Visualization (newly proposed)
This course will introduce students to the principles and algorithms necessary for effective visual analysis of data. The course begins with an overview of principles from perception and design, continues with skills for critiquing visualizations, and then focuses on visualization techniques and algorithms for a broad range of data types. Students will acquire hands-on experience using state-of-the-art visualization systems as well as programming interactive visual analysis tools.”

CAP 5627 Affective Computing
The study of systems that can recognize, interpret, process, and simulate human affect. Topics may include physiology of emotion, lie detection, wearable devices, music, gaming, and ethical concerns associated with affective computing.

CIS XXXX Neural Networks/ Deep Learning (newly proposed)
Students will know how to design and implement shallow and deep neural networks. The students will know how to properly train deep neural networks with apply the trained networks to applications.

EDF 7474 Applied Multilevel Modeling in Education
Helps students develop skills in defining, estimating, testing, and reporting the results of multilevel models. Design issues, model specification, estimation, statistical software, and model evaluation will be discussed.

PHC 6020 Clinical Trials: Design, Conduct and Analysis
The course will familiarize students with the issues in the design, conduct, and analysis of clinical trials. Factors involved in randomization, sample size and power, missing data, RCT data analysis, reporting and interpreting RCT findings.

F. For degree programs in the science and technology disciplines, discuss how industry-driven competencies were identified and incorporated into the curriculum and indicate whether any industry advisory council exists to provide input for curriculum development and student assessment.

While no industry advisory council exists at this time, we plan on establishing an executive advisory council from industries that are related to and have an interest in big data analytics. Such an advisory council is likely to span both companies local to the Tampa Bay Area (such as Nielsen) as well as national and international companies such as Google or AT&T.

G. For all programs, list the specialized accreditation agencies and learned societies that would be concerned with the proposed program. Will the university seek accreditation for the program if it is available? If not, why? Provide a brief timeline for seeking accreditation, if appropriate.

No current plans to seek special accreditation exist at this time.

H. For doctoral programs, list the accreditation agencies and learned societies that would be concerned with corresponding bachelor’s or master’s programs associated with the proposed program. Are the programs accredited? If not, why?
There are no organizations that accredit specific programs in Informatics and Big Data Analytics. However, the program will be housed in the Muma College of Business and part of the accreditation process of the College.

I. Briefly describe the anticipated delivery system for the proposed program (e.g., traditional delivery on main campus; traditional delivery at branch campuses or centers; or nontraditional delivery such as distance or distributed learning, self-paced instruction, or external degree programs). If the proposed delivery system will require specialized services or greater than normal financial support, include projected costs in Table 2 in Appendix A. Provide a narrative describing the feasibility of delivering the proposed program through collaboration with other universities, both public and private. Cite specific queries made of other institutions with respect to shared courses, distance/distributed learning technologies, and joint-use facilities for research or internships.

The Ph.D. in Informatics and Big Data Analytics will be delivered using a traditional classroom mode of instruction.

IX. Faculty Participation

A. Use Table 4 in Appendix A to identify existing and anticipated full-time (not visiting or adjunct) faculty who will participate in the proposed program through Year 5. Include (a) faculty code associated with the source of funding for the position; (b) name; (c) highest degree held; (d) academic discipline or specialization; (e) contract status (tenure, tenure-earning, or multi-year annual [MYA]); (f) contract length in months; and (g) percent of annual effort that will be directed toward the proposed program (instruction, advising, supervising internships and practica, and supervising thesis or dissertation hours).

Table 4, Appendix A lists the faculty, their percent of effort and areas of specialization.

B. Use Table 2 in Appendix A to display the costs and associated funding resources for existing and anticipated full-time faculty (as identified in Table 4 in Appendix A). Costs for visiting and adjunct faculty should be included in the category of Other Personnel Services (OPS). Provide a narrative summarizing projected costs and funding sources.

Table 2, Appendix A specifies the salary and benefit costs based on the percent of effort anticipated from each of the eight faculty who will be actively associated with the new degree program. This will be accomplished through the re-allocation of existing funds. In year one we anticipate lesser effort due to the program having fewer students. This will gradually increase until year 3 after which it will remain steady.

C. Provide in the appendices the abbreviated curriculum vitae (CV) for each existing faculty member (do not include information for visiting or adjunct faculty).

See CVs in Appendix E.

D. Provide evidence that the academic unit(s) associated with this new degree have been productive in teaching, research, and service. Such evidence may include trends over time for average course load, FTE productivity, student HC in major or service courses, degrees granted, external funding attracted, as well as qualitative indicators of excellence.
USF and all of its associated faculty have been very productive in terms of teaching, research and service. The strongest evidence for this is USF’s recent recognition as a “Preeminent State Research University,” recognizing the institution’s high performance and strong trajectory toward national excellence.

We will focus here particularly on university-wide trends as well as trends for the Muma College of Business, which will be housing the proposed degree program. Student headcounts have steadily been increasing both USF-wide (Figure 2) as well as at the Muma College of Business (Figure 3). Degrees awarded have also seen an increase in recent years, both USF-wide (Figure 4) as well as at the Muma College of Business (Figure 5), where particularly doctoral degrees awarded have increased significantly in recent years.

**Figure 2: Student Headcount USF-wide**

![Student Headcount USF-wide](image-url)
Figure 3: Student Headcount Muma College of Business

![Bar chart showing student headcount trends for various terms.]

Figure 4: Degrees Awarded USF-wide

![Bar chart showing degrees awarded by year across different academic programs.]
USF is engaged in an ambitious effort to become one of the nation’s top research universities and to position itself for membership in the American Association of Universities (AAU). An important step toward that goal was the classification of USF by the Carnegie Foundation for the Advancement of Teaching in its highest tier: a Research University with Very High Research (RU/VHR).

Consistent with the University’s research focus, the Muma College of Business emphasizes critical inquiry and research as fundamental to its educational mission. One key element is fostering research that is interdisciplinary and that has high impact. Between 2017 and 2018, Muma faculty have produced the following:

- 11 premier journal publications
- 29 top-tier publications
- 23 interdisciplinary publications
- 21 media citations
- 21 journal publications related to creativity and/or analytics

Additional qualitative indicators of excellence can be found in the Muma College of Business recent rankings:

- The Best Schools ranking of the 50 best online MBA programs in the nation put the University of South Florida's Muma College of Business program at No. 29. In a list released in July 2018, the publication said the online MBA program offered here "develops key knowledge and skills for success in administrative positions."

- The USF Vinik Sport & Entertainment Management Program was ranked No. 4 in the world by SportBusiness International which sifted through 1,000 survey responses from alumni and course leaders of programs around the world to rank the top 40 institutions in 2018.
The Information Systems and Decision Sciences Department was ranked No. 30 in business school research rankings compiled by the University of Texas at Dallas. The rankings are based on scores of more than 300 business schools and colleges across North America and include data collected from the three top research journal publications between Jan. 1, 2014 and Dec. 31, 2016. USF scored higher than all other public universities in the state except the University of Florida.

The part-time MBA program ranked No. 58 among public schools in the March Best Graduate Schools issue of the U.S. News and World Report. In addition, according to the CEO Magazine, the Executive MBA program was ranked No. 44 globally.

USF Muma College of Business has the highest business job placement rate among state schools with 66.4 percent of graduates starting out in positions making at least $40K.

The USF Muma College of Business's full-time MBA program was ranked among the top 100 MBA programs by QS in a survey released in 2019.

X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university’s students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Part I - Overview of USF Libraries, Mission, and Program/Discipline Strengths
The University of South Florida (USF) is accredited by the Southern Association of Colleges and Schools' Commission on Colleges to award associate, baccalaureate, master, specialist and doctorate degrees. The institution was initially accredited in 1965 and was last reviewed and reaffirmed in 2015.

The University of South Florida Libraries consist of USF’s main research library and the Hinks and Elaine Shimberg Health Sciences Library, both located on the Tampa Campus; the Nelson Poynter Memorial Library, USF St. Petersburg campus; and an Information Commons at the USF Sarasota-Manatee campus.

The USF Libraries inspire research, creativity, and learning by connecting the USF community to relevant and high-quality information. Our vision is to become the center of a highly engaged university community, driven to produce high-impact research and to nourish creativity. Together, the USF Libraries provide access to more than 2 million volumes and an extensive collection of electronic resources including approximately 64,928 e-journal subscriptions and over 900 aggregator databases containing another 92,855 unique e-journal titles, 693,313 e-books, and 826,000 digital images. In addition, students have access to over 83,000 audio/visual materials including electronic media, music scores, audiobooks, CDs, and DVDs.
The USF Libraries endeavor to develop and maintain a research collection that satisfies the resource needs of the undergraduate curriculums in the Muma College of Business Information Systems Decision Sciences Department and also meets the specialized needs of the graduate students and faculty for advanced research materials.

**Part II - USF Libraries’ Collections**

**MONOGRAPHS (Print and Ebooks)**

The USF Library contains extensive holdings of books in both print and e-book format that support student and faculty instructional and research needs in the new program. To identify the scope of relevant books, titles were derived from searching the library’s catalog by Library of Congress Subject Headings relevant to Informatics and Big Data Analysis studies.

<table>
<thead>
<tr>
<th>LC Subject Headings</th>
<th>Library of Congress Subject Headings for Big Data</th>
<th>Print</th>
<th>Electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artificial intelligence</td>
<td>Q335.A7887</td>
<td>1,135</td>
<td>5,995</td>
</tr>
<tr>
<td>Big data</td>
<td>QA76.73P98</td>
<td>193</td>
<td>391</td>
</tr>
<tr>
<td>Cloud computing</td>
<td>TK5105.88813</td>
<td>24</td>
<td>557</td>
</tr>
<tr>
<td>Database management</td>
<td>QA76.9 D3 B666</td>
<td>551</td>
<td>2,172</td>
</tr>
<tr>
<td>Digital communications</td>
<td>TK5103.7 B377</td>
<td>145</td>
<td>352</td>
</tr>
<tr>
<td>Electronic commerce</td>
<td>HF5548.32 F64</td>
<td>360</td>
<td>1,602</td>
</tr>
<tr>
<td>Geographic information systems</td>
<td>G70.2 C37- G70.212</td>
<td>324</td>
<td>675</td>
</tr>
<tr>
<td>Human-computer interaction</td>
<td>QA76.9H85 C37</td>
<td>273</td>
<td>1,506</td>
</tr>
<tr>
<td>Management information systems</td>
<td>HD30.213 F49-HD31.B7818</td>
<td>583</td>
<td>2,617</td>
</tr>
<tr>
<td>Mobile communication systems</td>
<td>TK6570.M6 I36</td>
<td>212</td>
<td>1,088</td>
</tr>
<tr>
<td>Multimedia systems</td>
<td>QA76.575.C73 2005</td>
<td>277</td>
<td>1,261</td>
</tr>
<tr>
<td>Probability Statistics</td>
<td>HA29.F64, QA273 M592</td>
<td>235</td>
<td>1,115</td>
</tr>
<tr>
<td>Semantic Web</td>
<td>TK5105.88815</td>
<td>34</td>
<td>375</td>
</tr>
<tr>
<td>System analysis</td>
<td>T57.6.H366 -N49</td>
<td>895</td>
<td>1,649</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>2,236</strong></td>
<td><strong>21,355</strong></td>
</tr>
</tbody>
</table>

Total Number of Monographs
- Print = 2,236
- Electronic = 21,355

**Ebooks and Ebook Collections**
- APA Handbook of Industrial and Organizational Psychology
- Knovel Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables
- ProQuest Ebook Central
- Springer eBook Collection in Computer Science
- Springer eBook Collection in Mathematics
- Springer Ebook Collection in Professional Computing and Web Design
- Springer Lecture Notes in Computer Science
- Springer Lecture Notes in Mathematics
- Springer Lecture Notes in Statistics
MAJOR SERIAL TITLES (JOURNALS)
The USF Libraries subscribe to several scholarly and professional journals that have an editorial scope and content which support research activities at the doctoral level in Informatics and Big Data Analysis. A majority of the titles are in electronic format thereby enhancing accessibility. Journal titles were derived by searching the library’s online catalog and identifying titles possessing relevant Library of Congress Subject Headings (LCSH) to research and curriculum topics in Informatics and Big Data Analysis. Additionally, the journal title list includes significant journals selected by the faculty of the Information Systems and Decision Sciences Department of the Muma College of Business. Serial Title Subscriptions

- 93 Journal Titles (electronic format)

<table>
<thead>
<tr>
<th>Title</th>
<th>Selected Core Journals</th>
<th>Highly Cited (Impact Factor)</th>
<th>Library Holdings (Online)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM Computing Surveys</td>
<td></td>
<td>5.550</td>
<td>03/01/1969 - present</td>
</tr>
<tr>
<td>ACM Transactions on Information Systems</td>
<td></td>
<td></td>
<td>01/01/1983 - present</td>
</tr>
<tr>
<td>ACM Transactions on Intelligent Systems and Technology TIST</td>
<td>X</td>
<td>2.973</td>
<td>10/01/2010 - present</td>
</tr>
<tr>
<td>ACM Transactions on Knowledge Discovery from Data</td>
<td></td>
<td></td>
<td>03/01/2007 - present</td>
</tr>
<tr>
<td>ACM Transactions on Management Information Systems</td>
<td></td>
<td></td>
<td>12/01/2010 - 1/30/2018</td>
</tr>
<tr>
<td>Advances in Data Analysis and Classification</td>
<td></td>
<td></td>
<td>01/01/2007 - present</td>
</tr>
<tr>
<td>American Statistician</td>
<td></td>
<td>4.302</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Annals of Probability</td>
<td>X</td>
<td>2.118</td>
<td>01/01/1973 - present</td>
</tr>
<tr>
<td>Annals of Statistics</td>
<td>X</td>
<td>2.522</td>
<td>01/01/1973 - present</td>
</tr>
<tr>
<td>Applied Stochastic Models in Business and Industry</td>
<td></td>
<td></td>
<td>01/01/1999 - present</td>
</tr>
<tr>
<td>ASLIB Journal of Information Management</td>
<td></td>
<td></td>
<td>11/01/1998 - present</td>
</tr>
<tr>
<td>Behavior and Information Technology</td>
<td></td>
<td></td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>Big Data Analytics</td>
<td></td>
<td></td>
<td>01/01/2016 - present</td>
</tr>
<tr>
<td>Big Data and Society</td>
<td></td>
<td></td>
<td>07/01/2014 - present</td>
</tr>
<tr>
<td>Big Data Quarterly</td>
<td></td>
<td></td>
<td>06/01/2015 - present</td>
</tr>
<tr>
<td>Big Data Research</td>
<td></td>
<td></td>
<td>08/01/2014 - present</td>
</tr>
<tr>
<td>Biometrika</td>
<td>X</td>
<td>1.669</td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>CIO</td>
<td></td>
<td></td>
<td>01/01/2007 - present</td>
</tr>
<tr>
<td>Title</td>
<td>Selected Core Journals</td>
<td>Highly Cited (Impact Factor)</td>
<td>Library Holdings (Online)</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------</td>
<td>-------------------------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>Communication Research</td>
<td></td>
<td></td>
<td>01/01/1974-12/31/1998; 02/01/1999 - present</td>
</tr>
<tr>
<td>Communications of the ACM</td>
<td></td>
<td>3.063</td>
<td>01/01/1958 - present</td>
</tr>
<tr>
<td>Computational Statistics &amp; Data Analysis</td>
<td></td>
<td>1.181</td>
<td>01/01/1995 - present</td>
</tr>
<tr>
<td>Computers and Operations Research</td>
<td></td>
<td></td>
<td>01/01/1995 - present</td>
</tr>
<tr>
<td>Computers in Human Behavior</td>
<td></td>
<td></td>
<td>12/01/1994 - present</td>
</tr>
<tr>
<td>Computing and Visualization in Science</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Data &amp; Knowledge Engineering</td>
<td></td>
<td></td>
<td>02/01/1995 - present</td>
</tr>
<tr>
<td>Data Mining and Knowledge Discovery</td>
<td>X</td>
<td>2.481</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Decision Support Systems</td>
<td></td>
<td>3.565</td>
<td>01/01/1995 - present</td>
</tr>
<tr>
<td>European Journal of Operational Research</td>
<td></td>
<td></td>
<td>01/05/1995 - present</td>
</tr>
<tr>
<td>Expert Systems with Applications</td>
<td></td>
<td></td>
<td>01/01/1990 - present</td>
</tr>
<tr>
<td>Foresight : The Journal of Futures Studies, Strategic Thinking and Policy</td>
<td></td>
<td></td>
<td>02/01/1999 - present</td>
</tr>
<tr>
<td>Fuzzy Sets and Systems</td>
<td></td>
<td>2.675</td>
<td>01/01/1978 - present</td>
</tr>
<tr>
<td>Human-Computer Interaction</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>IBM Journal of Research and Development</td>
<td></td>
<td>0.962</td>
<td>01/01/1957 - present</td>
</tr>
<tr>
<td>IEEE Communications Surveys and Tutorials</td>
<td></td>
<td>20.230</td>
<td>01/01/2000 - present</td>
</tr>
<tr>
<td>IEEE Transactions on computers</td>
<td></td>
<td></td>
<td>01/01/1968 - present</td>
</tr>
<tr>
<td>IEEE Transactions on Knowledge and Data Engineering</td>
<td>X</td>
<td>2.775</td>
<td>01/01/1989 - present</td>
</tr>
<tr>
<td>IEEE Transactions on Neural Networks</td>
<td></td>
<td>7.982</td>
<td>01/01/1990 - present</td>
</tr>
<tr>
<td>Industrial Management &amp; Data Systems</td>
<td></td>
<td></td>
<td>02/15/1992 - present</td>
</tr>
<tr>
<td>INFORMS Journal on Computing</td>
<td>X</td>
<td>1.392</td>
<td>01/01/1998 - present</td>
</tr>
<tr>
<td>Intelligent Data Analysis</td>
<td></td>
<td></td>
<td>02/01/2000 - present</td>
</tr>
<tr>
<td>Title</td>
<td>Selected Core Journals</td>
<td>Highly Cited (Impact Factor)</td>
<td>Library Holdings (Online)</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-----------------------</td>
<td>------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Interfaces INFORMS</td>
<td></td>
<td></td>
<td>06/01/1971 - present</td>
</tr>
<tr>
<td>International Journal of Electronic Commerce : IJEC</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>International Journal of Information Management</td>
<td></td>
<td></td>
<td>02/01/1995 - present</td>
</tr>
<tr>
<td>International Journal of Intelligent Systems</td>
<td></td>
<td></td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>International Journal of Production Research</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Int'l Journal of Human-Computer Studies</td>
<td></td>
<td></td>
<td>01/01/1995 - present</td>
</tr>
<tr>
<td>IUP Journal of Operations Management</td>
<td></td>
<td></td>
<td>08/01/2009 - present</td>
</tr>
<tr>
<td>Journal of Behavioral Decision Making</td>
<td>X</td>
<td>1.788</td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>Journal of Big Data</td>
<td></td>
<td></td>
<td>01/01/2014 - present</td>
</tr>
<tr>
<td>Journal of Business &amp; Economic Statistics</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of Business Ethics</td>
<td>X</td>
<td>2.917</td>
<td>11/01/1987 - present</td>
</tr>
<tr>
<td>Journal of Computer Info. Systems</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of Data Science Open Access</td>
<td></td>
<td></td>
<td>01/01/2003 - present</td>
</tr>
<tr>
<td>Journal of Forecasting</td>
<td></td>
<td></td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>Journal of Information Science</td>
<td></td>
<td></td>
<td>02/01/1999 - present</td>
</tr>
<tr>
<td>Journal of Information Technology &amp; Economic Development</td>
<td></td>
<td></td>
<td>01/01/2013 - present</td>
</tr>
<tr>
<td>Journal of Management Information Systems</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of Network and Systems Management</td>
<td></td>
<td></td>
<td>03/01/1993 - present</td>
</tr>
<tr>
<td>Journal of Strategic Information Systems</td>
<td></td>
<td></td>
<td>03/01/1995 - present</td>
</tr>
<tr>
<td>Journal of Supply Chain Management</td>
<td></td>
<td></td>
<td>01/01/1999 - present</td>
</tr>
<tr>
<td>Journal of the American Medical Association JAMA</td>
<td>X</td>
<td>47.661</td>
<td>01/01/1993 - present</td>
</tr>
<tr>
<td>Journal of the American Medical Informatics Association JAMIA</td>
<td>X</td>
<td>4.270</td>
<td>01/01/1996 - present</td>
</tr>
<tr>
<td>Journal of the ACM</td>
<td></td>
<td>1.744</td>
<td>01/01/1954 - present</td>
</tr>
<tr>
<td>Journal of the American Statistical Association JASA</td>
<td>X</td>
<td>2.297</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of the Association for Information Systems Alt. title: Journal of the AIS</td>
<td>X</td>
<td>2.839</td>
<td>01/01/2003 - present</td>
</tr>
</tbody>
</table>
### MAJOR SERIAL TITLES

<table>
<thead>
<tr>
<th>Title</th>
<th>Selected Core Journals</th>
<th>Highly Cited (Impact Factor)</th>
<th>Library Holdings (Online)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal of the Operational Research Society</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of the Royal Statistical Society Series A. Statistics in society</td>
<td>X</td>
<td>2.473</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of the Royal Statistical Society Series B. Statistical Methodology</td>
<td></td>
<td>2.894</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Journal of the Royal Statistical Society Series C. Applied Statistics</td>
<td>X</td>
<td>1.750</td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Judgment and Decision Making</td>
<td>X</td>
<td>2.525</td>
<td>01/01/2006 - present</td>
</tr>
<tr>
<td>Knowledge and Information Systems</td>
<td></td>
<td></td>
<td>01/01/1999 - present</td>
</tr>
<tr>
<td>Knowledge Based Systems</td>
<td></td>
<td></td>
<td>02/01/1995 - present</td>
</tr>
<tr>
<td>Knowledge Management Research and Practice</td>
<td></td>
<td></td>
<td>01/01/2003 - present</td>
</tr>
<tr>
<td>Machine Learning</td>
<td></td>
<td></td>
<td>01/01/1986 - present</td>
</tr>
<tr>
<td>Management science</td>
<td>X</td>
<td>3.544</td>
<td>01/01/1998 - present</td>
</tr>
<tr>
<td>MIS Quarterly: management information systems</td>
<td>X</td>
<td>5.430</td>
<td>03/01/1977 - present</td>
</tr>
<tr>
<td>Mobile Networks and Applications</td>
<td></td>
<td></td>
<td>04/01/2008 - present</td>
</tr>
<tr>
<td>NETNOMICS</td>
<td></td>
<td></td>
<td>01/01/1999 - present</td>
</tr>
<tr>
<td>Omega</td>
<td></td>
<td></td>
<td>02/01/1995 - present</td>
</tr>
<tr>
<td>Operations Research</td>
<td></td>
<td></td>
<td>02/01/1956 - present</td>
</tr>
<tr>
<td>Organizational Behavior and Human Decision</td>
<td></td>
<td></td>
<td>02/01/1985 - present</td>
</tr>
<tr>
<td>Organizational Research Methods</td>
<td>X</td>
<td>4.918</td>
<td>01/01/1998 - 10/31/1998; 01/01/1999 - present</td>
</tr>
<tr>
<td>Production and Operations Management</td>
<td></td>
<td></td>
<td>01/01/1997 - present</td>
</tr>
<tr>
<td>Simulation</td>
<td></td>
<td></td>
<td>01/01/1999 - present</td>
</tr>
<tr>
<td>Statistical Analysis and Data Mining</td>
<td></td>
<td></td>
<td>01/01/2008 - present</td>
</tr>
<tr>
<td>Structural Equation Modeling</td>
<td>X</td>
<td>3.531</td>
<td>01/01/1994 - 12/31/1996; 01/01/1997 - present</td>
</tr>
</tbody>
</table>

### DIGITAL LIBRARIES and DATABASES

Scholarly, research and instructional activities associated with Informatics and Big Data Analytics program endeavors are supported by a number of both specialized and general business, statistics, and computer science databases which provide access to journal articles, conference proceedings, monographs, statistical data, company profiles, statistics and reports.
**Specialized Digital Libraries**

<table>
<thead>
<tr>
<th>Libraries</th>
<th>Journals</th>
<th>Proceedings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACM Digital Library</strong></td>
<td>80</td>
<td>994</td>
</tr>
<tr>
<td>The ACM Digital Library is the full-text repository of papers from ACM journals, conference proceedings, and newsletter articles that have been published, co-published, or co-marketed by the Association for Computing Machinery and other publishers. Includes International Conference on Machine Learning (ICML), International Conference on Machine Learning (KDD), ACM Conference on Recommender Systems (RECSYS), ACM International Conference on Web Search and Data Mining and (WSDM),</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IEEE Xplore Digital Library</strong></td>
<td>535</td>
<td>31749</td>
</tr>
<tr>
<td>Institute of Electrical and Electronics Engineers IEEE/Institution of Electrical Engineers IEE. Provides full-text access to IEEE transactions, IEEE and IEE journals, magazines, and conference proceedings published since 1988, and all current IEEE standards; brings additional search and access features to IEEE/IEE electronic library users nearly all available from Volume 1, Issue 1. Includes IEEE International Conference on Big Data (ICBD), International Conference on Data Mining (ICDM).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INFORMS PubsOnline</strong></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>INFORMS offers a wide array of content and information about Operations Research and Analytics to meet the needs and interests of researchers, practitioners, students, business leaders, policy-makers, and the public.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Digital Libraries**
- Cambridge Core
- Elsevier’s ScienceDirect
- Springer Nature’s SpringerLInk
- Wiley Online Library
- **Publishers Online Journal Access**
- American Mathematical Society Journals
- Emerald Insight
- Oxford Academic Journals
- SAGE Journals Online
- SIAM Journals Online
- Taylor & Francis Online

**Aggregated Business and Computer Science Journal Databases**
- ABI/INFORM Collection
- Academic Search Premier
- Applied Science & Technology Source
• Business Source Premier
• Expanded Academic ASAP
• ProQuest Computer Science Database
• ProQuest Science Database
• ProQuest Dissertations & Theses

Business & Computer Engineering Information Databases
• IBISWorld
• Mergent Online, Intellect, Key Business Ratios, and Archives
• Continuum Economics [RGE Monitor]
• MarketLine Advantage
• Mintel Academic
• Morningstar Investment Research Center
• Standard & Poor’s NetAdvantage
• Compendex [1884- ]
• Inspec [1898- ]
• MathSciNet
• PsycINFO

Statistical Datasets and Tools
• Wharton Research Data Services (WRDS)
  o AuditAnalytics
  o Compustat ExecuComp
  o CRSP
  o I/B/E/S
  o Compustat North America
  o MSCI ESG KLD STATS
  o Data-Planet Statistical Datasets
  o EASI Market Planner
  o China Data Center
• Data-Planet Statistical Ready Reference
• CSRHub
• Gartner
• ICPSR Data Access and Analysis
• iPOLL [Roper Center Archive]
• MSCI ESG Direct
• NBER Working Papers
• OECD Education Statistics--Education Database
• OECD iLibrary
• SimplyAnalytics
• SRDS Online
• WDI Online
Citation Analytics Tools and Indices

- Web of Science
  - Data Citation Index [1900 - Present]
  - Current Contents Connect [1998 - Present]
  - Century of Science
  - Conference Proceedings Citation Index [1990 - Present]
  - MEDLINE [1950 - Present]
  - Emerging Sources Citation Index (ESCI) [2005 - Present]
- InCites
- InCites Journal Citation Reports
- InCites Essential Science Indicators
- SciVal
- Scopus

B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

As of April 17, 2019, the collections of the USF Tampa Library and affiliates are sufficient to support the Ph.D. program in Informatics and Big Data Analysis at the Muma College of Business. The Libraries maintain an exceptionally strong collection of resources and services needed to support USF as a Preeminent Research University. The librarians and Dean of the Libraries work closely with the Muma College of Business to ensure all curricular and research needs are more than adequately supported. No new resources are required to support this new Ph.D. program at this time.

C. Describe classroom, teaching laboratory, research laboratory, office, and other types of space that are necessary and currently available to implement the proposed program through Year 5.

Students will participate in existing courses and will use existing office spaces and existing research labs at the Muma College of Business and other participating colleges. No new resources are required to support this new Ph.D. program.

D. Describe additional classroom, teaching laboratory, research laboratory, office, and other space needed to implement and/or maintain the proposed program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space in Table 2 in Appendix A. Do not include costs for new construction because that information should be provided in response to X (E) below.

No additional classroom, teaching lab, research lab, office and other spaces are required to support this new Ph.D. program.

E. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university's fixed capital outlay priority list. Table 2 in Appendix A includes only Instruction and Research (I&R) costs. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase as a result of the program, describe and estimate those expenses in narrative form below. It is expected that
high enrollment programs in particular would necessitate increased costs in non-I&R activities.

No new capital expenditures are required to support this new Ph.D. program.

F. Describe specialized equipment that is currently available to implement the proposed program through Year 5. Focus primarily on instructional and research requirements.

Research and teaching will conducted with the help of existing computing resources (across offices and classrooms at the Muma College of Business and other participating colleges) and existing software licenses (currently supported by USF IT). No new specialized equipment is required to support this new Ph.D. program.

G. Describe additional specialized equipment that will be needed to implement and/or sustain the proposed program through Year 5. Include projected costs of additional equipment in Table 2 in Appendix A.

No new specialized equipment is required to support this new Ph.D. program.

H. Describe any additional special categories of resources needed to implement the program through Year 5 (access to proprietary research facilities, specialized services, extended travel, etc.). Include projected costs of special resources in Table 2 in Appendix A.

No new additional special categories of resources are required to support this new Ph.D. program.

I. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5. Include the projected costs in Table 2 in Appendix A.

We are anticipating supporting three students in steady state through assistantships that will be supported by the Muma College of Business’ auxiliary funds. Currently we have an active Center for Analytics and Creativity that offers non-degree programs and a Doctor of Business Administration program that both bring in steady revenues that can support the three assistantships in steady state. In addition, we expect that there may be also grant-supported students based on the research active faculty from the different colleges that are part of this program (many of whom have NSF/NIH funding for research). We also have several programs that require teaching assistants who are highly skilled in big data and Ph.D. students in this program will be excellent candidates for such assistantships. Since we do not have a specific number yet from these sources we have not included these in the budget tables, but do want to bring this up in the narrative so that reviewers will be aware of a much broader potential base of support for these doctoral students.

J. Describe currently available sites for internship and practicum experiences, if appropriate to the program. Describe plans to seek additional sites in Years 1 through 5.

Currently, sites for internship and practicum experiences are available at many of USF’s corporate partners and friends. Local partners who have expressed interest in supporting such practicum include Jabil and Nielsen, but we have also received initial interest from national partners such as Google and AT&T.
### APPENDIX A

**TABLE 1-B**

**PROJECTED HEADCOUNT FROM POTENTIAL SOURCES**

(Graduate Degree Program)

<table>
<thead>
<tr>
<th>Source of Students (Non-duplicated headcount in any given year)*</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
</tr>
<tr>
<td>Individuals drawn from agencies/industries in your service area (e.g., older returning students)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Students who transfer from other graduate programs within the university**</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Individuals who have recently graduated from preceding degree programs at this university</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Individuals who graduated from preceding degree programs at other Florida public universities</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Individuals who graduated from preceding degree programs at non-public Florida institutions</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Additional in-state residents***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Additional out-of-state residents***</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Additional foreign residents***</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Other (Explain)***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>4</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>13</td>
</tr>
</tbody>
</table>

* List projected annual headcount of students enrolled in the degree program. List projected yearly cumulative ENROLLMENTS instead of admissions.

** If numbers appear in this category, they should go DOWN in later years.

*** Do not include individuals counted in any PRIOR category in a given COLUMN.
### APPENDIX A

#### TABLE 2

**PROJECTED COSTS AND FUNDING SOURCES**

<table>
<thead>
<tr>
<th>Instruction &amp; Research Costs (non-cumulative)</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reallocated Base* (E&amp;G)</td>
<td>Enrollment Growth (E&amp;G)</td>
</tr>
<tr>
<td>Faculty Salaries and Benefits</td>
<td>192,838</td>
<td>0</td>
</tr>
<tr>
<td>A &amp; P Salaries and Benefits</td>
<td>2,893</td>
<td>0</td>
</tr>
<tr>
<td>USPS Salaries and Benefits</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Personal Services</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistantships &amp; Fellowships</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Library</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Expenses</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Operating Capital Outlay</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Special Categories</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Costs</td>
<td>$195,731</td>
<td>$0</td>
</tr>
</tbody>
</table>

*Identify reallocation sources in Table 3.

**Includes recurring E&G funded costs ("reallocated base," "enrollment growth," and "other new recurring") from Years 1-4 that continue into Year 5.

***Identify if non-recurring.

**Faculty and Staff Summary**

<table>
<thead>
<tr>
<th>Total Positions</th>
<th>Faculty (person-years)</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A &amp; P (FTE)</td>
<td>2,893</td>
<td>6,119</td>
</tr>
<tr>
<td></td>
<td>USPS (FTE)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Calculated Cost per Student FTE</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total E&amp;G Funding</td>
<td>$195,731</td>
<td>$250,886</td>
</tr>
<tr>
<td>Annual Student FTE</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td>E&amp;G Cost per FTE</td>
<td>$48,933</td>
<td>$16,726</td>
</tr>
</tbody>
</table>
APPENDIX A

TABLE 3
ANTICIPATED REALLOCATION OF EDUCATION & GENERAL FUNDS*

<table>
<thead>
<tr>
<th>Program and/or E&amp;G account from which current funds will be reallocated during Year 1</th>
<th>Base before reallocation</th>
<th>Amount to be reallocated</th>
<th>Base after reallocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: 555-555 World exploration fund (example)</td>
<td>0</td>
<td>0</td>
<td>$0</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>27,379,103</td>
<td>120,132</td>
<td>$27,258,971</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>0</td>
<td>44,283</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>0</td>
<td>31,316</td>
<td></td>
</tr>
</tbody>
</table>

Note: Many of the courses in the curriculum already exist and are taught by faculty, therefore, professors will be increasing enrollments in existing courses that are already part of the budget.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Totals</td>
<td>$27,379,103</td>
<td>$195,731</td>
</tr>
</tbody>
</table>

* If not reallocating funds, please submit a zeroed Table 3
# APPENDIX A

## TABLE 4

**ANTICIPATED FACULTY PARTICIPATION**

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Faculty Name or &quot;New Hire&quot;</th>
<th>Highest Degree Held</th>
<th>Academic Discipline or Speciality</th>
<th>Rank</th>
<th>Contract Status</th>
<th>Initial Date for Participation in Program</th>
<th>Mos. Contract Year 1</th>
<th>FTE Year 1</th>
<th>% Effort for Prg. Year 1</th>
<th>PY Year 1</th>
<th>Mos. Contract Year 5</th>
<th>FTE Year 5</th>
<th>% Effort for Prg. Year 5</th>
<th>PY Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Jank, Wolfgang</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.20</td>
<td>0.15</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Padmanabhan, Balaji</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.20</td>
<td>0.15</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Sarkar, Sudeep</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.10</td>
<td>0.08</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Das, Tapas</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.10</td>
<td>0.08</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Beckstead, Jason</td>
<td>Associate Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>12</td>
<td>1.00</td>
<td>0.08</td>
<td>0.08</td>
<td>12</td>
<td>1.00</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Stark, Stephen</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>1.00</td>
<td>0.08</td>
<td>0.08</td>
<td>9</td>
<td>1.00</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Skrzypek, Leslaw</td>
<td>Associate Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>12</td>
<td>1.00</td>
<td>0.08</td>
<td>0.08</td>
<td>12</td>
<td>1.00</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Mithas, Sunil</td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.10</td>
<td>0.08</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Person-Years (PY)**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.77</td>
<td>0.97</td>
</tr>
</tbody>
</table>

## APPENDIX A

### TABLE 4

**PY Workload by Budget Classification**

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Source of Funding</th>
<th>PY Year 1</th>
<th>PY Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Existing faculty on a regular line</td>
<td>Current Education &amp; General Revenue</td>
<td>0.77</td>
</tr>
<tr>
<td>B</td>
<td>New faculty to be hired on a vacant line</td>
<td>Current Education &amp; General Revenue</td>
<td>0.00</td>
</tr>
<tr>
<td>C</td>
<td>New faculty to be hired on a new line</td>
<td>New Education &amp; General Revenue</td>
<td>0.00</td>
</tr>
<tr>
<td>D</td>
<td>Existing faculty hired on contracts/grants</td>
<td>Contracts/Grants</td>
<td>0.00</td>
</tr>
<tr>
<td>E</td>
<td>New faculty to be hired on contracts/grants</td>
<td>Contracts/Grants</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Overall Totals for**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.77</td>
<td>0.97</td>
</tr>
</tbody>
</table>
APPENDIX B

Please include the signature of the Equal Opportunity Officer and the Library Director.

Signature of Equal Opportunity Officer

Signature of Library Director

Date 4/22/19

Date 4/16/19

This appendix was created to facilitate the collection of signatures in support of the proposal. Signatures in this section illustrate that the Equal Opportunity Officer has reviewed section II.E of the proposal and the Library Director has reviewed sections X.A and X.B.
Appendix C – Letters of Support
From:
Valliappra Lakshmanan
Tech Lead, Big Data and Machine Learning
Google Cloud
Seattle, WA

To:
Florida Board of Governors
State University System of Florida
325 West Gaines Street
Tallahassee, FL 32399

Dear Member of the Board,

I am writing this letter to lend my support to the proposal from USF for a new Ph.D. program in Informatics and Big Data Analytics. I am Tech Lead for Google Cloud's Big Data and Machine Learning Professional Services, and in this role, my team has worked with hundreds of companies and thousands of individuals who are embarking on a journey to take advantage of the insights that can be derived from large, streaming, and heterogeneous datasets. I have been at Google in this role for three years; prior to that I built a Data Science team at a startup company (Climate Corporation) focused on precision agriculture and that was acquired and is now part of Bayer. Prior to that, I was a Research Scientist at a federal government research laboratory working on real-time pattern recognition algorithms for severe weather forecasting. I am also on the board of advisors for the Data Analytics program at Washington State University. I have a Ph.D. from the University of Oklahoma in Electrical Engineering (in 2002) and have been working in the big data and machine learning areas for over two decades.

Extracting timely insights at scale is an extremely important task for industry, and it is one that very few companies are good at today. The reason has to do with the paucity of talent. That is why I am so supportive of the program at USF -- because of its potential to graduate advanced researchers in this field. While we at Google, Microsoft, Amazon, Nvidia etc. can build the frameworks and tools that enable large-scale data processing and machine learning, it is academia that has to build a workforce that is capable of applying these techniques in different
domains. For example, while Google might be able to build and open-source BERT, a natural language transfer learning tool, it requires capable researchers in finance to apply this to the task of analyzing remarks in the press by company officers to find compliance issues. These researchers have to adapt at several different things — computer science (to handle large, streaming datasets), statistics (to draw valid inferences), and the domain (e.g. finance). This requires a cross-disciplinary program such as the one proposed at USF.

I have reviewed the program curriculum and perused the profiles of faculty who are likely to be teaching and advising doctoral students in this program. Based on my knowledge of the area and prior experience in academia, I believe that the structure of the program will enable students to complete a PhD within three years (particularly if some of them have a Masters coming in). I really appreciate the fact that the "comprehensive examination" for this program is practice-focused -- even industry veterans truly understand a topic only when they have to apply it to a real problem. One of our largest customers in a very traditional industry, whose workforce we are helping to upskill in precisely this area, remarked that his employees were able to pick up book knowledge but lacked "scar tissue". It is that scar tissue that students will develop when they have to complete a realistic big data analytics project.

A PhD program cannot be purely a matter of regurgitating existing knowledge or applying known techniques to simple problems. Especially when it comes to extracting data insights, there is a strong dose of creativity required. This is why I like that the program has a strong research paper component, where students also need to demonstrate that they can make novel and fundamental (new) contributions to the area.

As I mentioned, the key gap in industry is the ability to apply the advances in computer science to other domains, and to use those insights to make fundamental breakthroughs in those fields as well. I am therefore quite supportive of the idea of pulling committee members from many different departments (business, information systems, computer science, mathematics etc.). The hope is that the committee will be involved in the dissertation throughout and create some great opportunities for important interdisciplinary ideas in this area. I trust the ability of USF to hire great faculty who are leading experts in their respective fields. Certainly, the pedigree of the current faculty and their publication record seems to indicate this. I am confident that this group can mentor, advise and chair a wide range of dissertations in this field.

My only major suggestion (and this might already have been considered by the curriculum designers) is that ethics not be a standalone component of the course. At Google, we have published a list of AI principles that we adhere to, and we find ourselves working through the ramifications of even very technical decisions. Therefore, I'd suggest that ethics be woven throughout the curriculum and the current ethics-focused courses serve as a reaffirmation of the principles and concerns that are addressed in all the other courses.

A minor suggestion is that I do not see in the curriculum any option for the students to do internships in industry. Building a strong internship program in the career office would be very
helpful for students to "try" out a company and area before making a career-defining move after their PhD. Google, for example, has a strong internship program, and many of our competitors and enterprise customers do as well. We would love it if USF would encourage their PhD students to consider doing an internship in industry during the course of their PhD.

Thank you

Valliappa Lakshmanan
February 18, 2019

Balaji Padmanabhan
Professor, Information Systems & Decision Sciences
Director, Center for Analytics & Creativity
Muma College of Business
University of South Florida
4202 E Fowler Ave
Tampa, FL 33620

Dear Balaji:

I appreciate the opportunity to review the draft curriculum and approach for USF’s potential new PhD program in Big Data Analytics. I find the program to be very forward thinking. I was particularly pleased with the interdisciplinary approach in the curriculum as well as the advisors from the colleges of public health, psychology, business and engineering. I believe each one of these areas play an important role in the future of big data. If there are similar PhD programs in this space, I have not seen them.

The mechanics of capturing and processing massive amounts of data at speed and scale has long been solved from a business perspective and gains will continue to be made.

The current challenges are not found in the volume alone but in the disparate sources of structured and unstructured data in a large variety of formats. The skills needed to interpret language, images and emotions next to other sources with pure numeric value requires more than an engineering perspective. Data is becoming more complex and more human every day.

The future of data science will blend skill sets as diverse as the data we capture and turn it into a cohesive view from which we can draw valid conclusions. As you know, I have spent most of my career in the field of data science within fortune 100 companies. This program directly addresses what I believe is the most critical need in this space, diversity of thought, which ultimately drives creativity and new paths to discovery.

Sincerely,

Tracy L. Bell
Senior Vice President
Media Monitoring and Analytics Executive
To Whom it May Concern,

I am writing this letter in order to provide comments on the proposed Doctoral program in Big Data Analytics at the University of South Florida. To provide some background, I currently run The Data Science and AI Research organization at AT&T Labs—a team of about 50 data scientists, mostly PhDs, whose mission is to solve the business problems of AT&T through development of new and innovative technologies in data science fields. I believe that organizations like mine—PhD-level industrial research programs—would be one of the intended targets for students coming out of the program you are creating.

I have reviewed the curriculum with an eye towards whether a student with these courses would be competitive for the types of jobs offered in organizations like mine. Currently, I feel there is a gap in students coming out of traditional graduate schools for data science jobs. Students from statistical programs have great mathematical and theoretical skills but often lack skills with data management or detailed programming experience needed for real-world problems. Computer Science grads, on the other hand, might be great coders but either have focused on algorithmic theory or don’t have practical experience with real world data. They also typically don’t appreciate the concepts of significance and uncertainty that are so important in data analytics. The best candidates are a hybrid, who have been taught in a multi-disciplinary manner, and can pull from the best of each discipline.

Recently, many Masters-level programs have popped up to train data scientists. These programs are quite variable—can be anywhere from 4 weeks to 2 years—and focus on practical data science issues not typically taught in the “hard” disciplines—e.g. data management, data wrangling, data visualization, exploratory techniques, parsing data, and especially communication of results. These programs are flooding the market with graduates who have relevant but shallow knowledge.

As far as I can tell, the best of all worlds is reflected in the USF proposal. It requires statistical and mathematical depth alongside the more practical skills of database and large data management, analytic storytelling, and design of experiments. It will graduate students with a comprehensive “toolbox” of methods, including standard statistical modeling, machine learning, AI and deep learning methods, and optimization. Also importantly, it covers topics like ethics and privacy, an often overlooked but crucial element of analytics, especially in this age of increasing automation. The options in each course category and the large set of electives will let the student tailor their education towards the type of job they would like to get, while ensuring a base level of knowledge.

The program will train students in the core elements of large scale data analytics, and will be one of the first PhD programs in the field. That level of commitment will ensure employers like AT&T that these students are comprehensive learners and innovative thinkers. In summary, as I look through the syllabus, I would definitely say that a student coming out of this program would be competitive for the types of positions that I hire into in my organization.

Sincerely,

Chris Volinsky
February 14, 2019

To Whom It May Concern:

I am writing in strong support of the proposed Ph.D. program in Informatics & Big Data Analytics. USF has an extraordinary team of faculty across many of its departments and colleges with deep expertise in the area. My company, Nielsen, for instance has hired many USF students and over the years and they have made significant contributions. It is a terrific opportunity to have a program like this, literally in our own backyard, where we can potentially source highly advanced Ph.D. level talent from in the areas of data science and big data analytics.

Nielsen is a global measurement and data analytics company that provides the most complete and trusted view available of consumers and markets worldwide. Our approach marries proprietary Nielsen data with other data sources to help clients around the world understand what's happening now, what's happening next, and how to best act on this knowledge.

For more than 90 years Nielsen has provided data and analytics based on scientific rigor and innovation, continually developing new ways to answer the most important questions facing the media, advertising, retail and fast-moving consumer goods industries. An S&P 500 company, Nielsen has operations in over 100 countries, covering more than 90% of the world's population.

Over the last few years we have hired extensively in the area of data management and big data analytics, and only expect the demand for expertise in this discipline to increase. With many of the jobs requiring a high degree of competence, typically at the advanced graduate level. Ph.D. programs like this will make it significantly easier for firms like Nielsen to source the kind of talent we need in today’s world.

From what I have seen there are certainly not many programs that are similar to this anywhere. This can help USF, and the state of Florida itself, establish itself as a significant thought leader in this very important area.

I look forward to seeing this in our system soon and appreciate the opportunity to comment.

Sincerely,

Brian Fuhrer  
SVP Product Leadership  
National Television Audience Measurement
February 18, 2019

Dear committee:

I am writing this letter in support of the initiative to create a Doctoral Program in Big Data Analytics at the University of South Florida. I was very pleasantly surprised to learn that the initiative is a multi-disciplinary effort as I do truly believe that ‘Big Data Analytics’ cuts across a wide variety of disciplines. From my home in a business school, we do ask our doctoral students to often take courses in Social Sciences, Economics, Statistics and Computer Sciences and therefore I have an appreciation for the different perspectives these disciplines can offer.

Data can be generated in any context and can be analyzed in any number of ways from machine learning methods, to traditional statistical approaches to econometric methods. Therefore, I was particularly impressed by the 12 required categories from which the core courses are chosen. Exposing a student to all approaches in data analytics is critical and is often not feasible in a traditional doctoral program. I am familiar with the impressive research tradition of this taskforce and the faculty they have assembled – I have no doubt that this would be a stellar doctoral program.

As the dean of our Master of Science in Business Analytics program, I can say that we struggle to identify faculty who have a command over a wide variety of data analytics perspectives and I can see how graduates of such a program can help fill that gap. Perhaps, the only suggestion I might have is that it will still be critical to have a strong ‘home department’ to guide a student through the PhD – after all job markets and tenure processes are still somewhat parochial and advising students through these still remain critical.

I cannot be more enthusiastic about this effort. Please do not hesitate to reach out to me in case you have any questions.

Sincerely yours,

Ramnath K. Chellappa, PhD
Associate Dean and Academic Director
Master of Science in Business Analytics (MSBA)
Emory University
1300 Clifton Road
Atlanta, Georgia 30322-2710

Associate Professor
Goizueta Foundation Term Professor
Information Systems and Operations Management (ISOM)
Florida Board of Governors  
State University System of Florida  
Tallahassee  
Florida

Dear Sir/Madam,

I was asked to comment on a proposal from USF for a new Ph.D. program in Informatics and Big Data Analytics.

I am a Professor at the Stern School of Business and the Center for Data Science at New York University. I am currently the Director of Graduate Studies for the PhD program in Data Science. The Center for Data Science was created in 2012 and is a separate unit within NYU that doesn’t belong to any school. The Masters Program in Data Science started in 2015, and admitted its fourth cohort last year. The PhD program is currently in its third year. I headed the committee that designed the program, and I have overseen the first two plus years of its operation.

I have worked in the data science and related fields for almost four decades now since my Ph.D. in Artificial Intelligence from the University of Pittsburgh. This is an area with which I am very familiar, and I have watched its popularity grow from almost nothing to what it is now, which I would describe in one word: frenzy. People can’t get enough of it fast enough.

I have seen other schools emulating the NYU model. Many schools now have a Masters program in Data Science or related area depending on the structure of the university. A few are eager to start PhD programs.

At the outset I would like to emphasize how important it is for industry and academia to have programs like ours and the one under consideration at your university that can graduate advanced researchers in this field. What makes these programs singularly appealing is their broad interdisciplinary nature. I view Data Science in terms of a matrix where domains are columns (health, vision, law, business, etc.) and rows are methods (linear methods, neural networks,
visualization methods, etc.). If you view the world in this way, you realize that much of the innovation these days is happening at the intersection of domains and methods. Domains often motivate new methods, which are in turn generalized for application to other domains. Indeed, I would argue that much of the innovation in domains such as health, physical sciences, perception, and business, is being done by data scientists in collaboration with domain experts.

I have reviewed the proposed program curriculum of USF. While somewhat different from NYU’s approach, the small core followed by a careful selection of courses from twelve categories appears to be well-thought through and covers many of the foundational areas for the interdisciplinary degree. There’s a plethora of electives to choose from. If anything, you may want to cull down this list since it looks overly broad to me.

The faculty leading this program have their own PhDs in this or a related area from strong institutions in the country and appear to be well published in leading journals and conferences in the data science and big data areas. Several have grants from industry and leading federal agencies like NSF/NIH as well. I am confident that this group can mentor, advise and chair a wide range of dissertations in this field.

I look forward to seeing this program approved by the State of Florida and will be glad to provide my inputs and advice to the team that will be in charge of getting this off the ground in due course.

Sincerely

Vasant Dhar
Feb 17, 2019

To:
Florida Board of Governors,
State University System of Florida,
Tallahassee, Florida

Dear Sir/Madam,

This note is to enthusiastically support an interdisciplinary effort at USF (across Arts & Sciences, Engineering, Business and Public Health) to develop a new PhD in Big Data Analytics. The proposal is very well thought out and well rounded, including topics such as ethics and understanding cognitive biases that will become increasingly critical as AI-oriented decision-making systems based on big data analytics directly affect humans when get deployed. It leverages the considerable talent across multiple departments at USF, as well as external resources such as online education (Coursera). I have been involved in education and research in this area for over two decades at UT, Austin. In the very recent past, this area has really rocketed in terms of both industry relevance and student interest. In fact, much of the recent progress in AI is founded on intelligent big data analytics. Also, along with software engineering, AI and machine learning is attracting by far the most interest from students at both undergraduate and graduate levels. A business analytics program that I co-created recently within the business school at UT, now attracts well over a thousand applicants for 50-60 seats. The stars are aligned for the proposed program to be a tremendous success for the State of Florida, and hence I endorse it most strongly.

Please contact me at (512)-471-8980 or at jghosh@utexas.edu about any additional information that you might wish to know about this note.

Sincerely yours

Joydeep Ghosh
Schlumberger Centennial Chaired Professor
Electrical and Computer Engineering,
The Univ. of Texas, Austin
Subject: Evaluation of New Big Data Analytics PhD Program at USF

Dear Professor Jank and committee members,

Thank you for inviting me to provide my feedback on the proposed new PhD program in Big Data Analytics at University of South Florida. First, I believe there is a strong need for such a PhD program, given the enormous impact that data scientists have on the design and use of the many automated systems that now govern our everyday lives, including education, employment, financials, health, politics, social connectivity and even dating, to name just a few areas. The data scientists and engineers who have been leading the largest companies and managing important groups there typically have not had an interdisciplinary education or background. Such a lack is now strongly being reflected in the current data privacy crisis. The need for PhD graduates with strong technical capabilities supplemented by an understanding of human and social needs and well-being is burning.

The proposed Big Data Analytics PhD program at USF contains several important elements: First, it requires taking at least one course from each of 12 categories that span a variety of technical areas as well as a category on Ethics & Privacy (nicely set as category #1) and one on causal reasoning. The list of elective courses includes a variety of more advanced technical areas (statistics, probability, data mining, operations, computer science).

Second, students are expected to take 4 courses per semester in their first 4 semesters. After completing the course requirements, students proceed to the qualifying examination stage, where they are required to write a research paper and submit it along with computer code to the committee. The committee not only reviews the work, but also further provides questions the student must answer in writing. Finally, the student presents his/her answers in an oral examination.

The structure and requirements seem appropriate for a Big Data Analytics PhD-level program, and overall I believe with proper management such a program can be very successful. Below I list several suggestions, based on my experience with interdisciplinary PhD programs (such as the one in our Institute):

1. The 12 categories of courses cover many technical groups and departments at USF. I would have liked to see more involvement from areas that focus on policy making, such as economics and public policy. Because Data Scientists in industry can have a strong impact on decisions and designs that affect large communities,
it is important to expose them to ways of thinking that are aligned with Western democratic social and political values.

2. Students in interdisciplinary programs sometimes suffer from lack of a “home” and cohort. It is therefore useful to have a joint seminar course where all the Big Data Analytics PhD students meet and interact. Moreover, having a dedicated joint space and facilities (e.g. computing) for this group can help create cohesion and collaborations.

3. Since the program is also intended to produce PhD graduates that will go into academia, there is currently a very strong requirement by many schools for teaching expertise. I therefore suggest including a teaching requirement.

4. In most universities, there is not (yet) a department Data Science or Big Data Analytics in the interdisciplinary sense of the proposed program. The use of “Data Science” or “Big Data Analytics” in a department name is often a change of name for a Statistics department, an OR/OM group, or a department that has subgroups from different areas. But each faculty member typically has a background in a single area. Similarly, and importantly, currently top journals in most technical fields are still not geared to interdisciplinary papers. As a Department Editor at Decision Sciences, where we are trying to promote such work, we face many challenges including lack of reviewers with interdisciplinary expertise. Hence, it would be useful to help students in the new Big Data Analytics program who intend to go to academia identify their appropriate academic community, publication outlets, conferences, etc.

Congratulation on being one of the earlier to offer a PhD program in Big Data Analytics! While the number of MS programs is mushrooming, I believe there is a dire need for a PhD-level program, and commend USF for charging with one.

Sincerely,

Galit Shmueli, PhD
Tsing Hua Distinguished Professor
Institute of Service Science
College of Technology Management
National Tsing Hua University
Hsinchu 30013, Taiwan
galit.shmueli@iss.nthu.edu.tw
Appendix D – External Reviewer Report
March 23, 2019

To whom it may concern:

It is my pleasure to provide this evaluation letter for the proposed PhD program in Informatics and Big Data Analytics, being proposed by the Muma College of Business (along with a broadly multidisciplinary set of academic units) at the University of South Florida. In preparation for this evaluation, I reviewed the official proposal, and met with multiple stakeholders on the USF campus on Monday March 18.

I have a significant history of relevant experience that informs my evaluation. I served for nine years as the Director of Graduate Studies (in essence, PhD director) in the Management Sciences Department at Iowa, and another six years as Departmental Executive Officer (department head). While our program is housed in the Tippie College of Business, it is very interdisciplinary in scope, with a strong computational data science group. In addition, I helped develop our Interdisciplinary Graduate Program in Informatics, a program that has significant academic and structural similarities to the proposed program. I have served in several leadership positions in the Informatics program, including director of the Health Informatics subprogram for 11 years and the Information Science subprogram for three years.

In the era of “big data” the need for programs of this type should be evident, and the case is clearly made in the proposal. More and more departments across the academic spectrum are searching for graduates with these skills; this year alone, graduates from our department have received tenure-track offers from computer science, industrial engineering, information science / informatics, and information systems / management science departments. Meanwhile, the need for highly-skilled applied data scientists in industry is practically infinite; as a DEO, I regularly received calls from industrial partners looking for graduates with exactly these qualifications, including at the PhD level. Despite the huge and growing need for talent, it is basically impossible for a single academic department to provide both the depth and breadth of training that students need to reach a PhD level in this field; such departments simply don’t exist yet. One must either require graduate level courses in other departments to fill in the gaps (as we do in computer science and statistics), or design an interdisciplinary program from scratch. Despite the administrative coordination issues involved, I believe the latter approach to be definitely feasible and probably preferably.

The curriculum as proposed in this program is exemplary, covering all the necessary foundational work as well as incorporating some fairly novel components that really stand out to me. Any such program needs solid courses in large data management, data visualization, data mining / machine
learning, statistics, and optimization, as included here. Topics such as artificial intelligence, linear algebra and causality give the program a strong data science flavor, comparable to what would be seen in a computer science department, and are also fairly standard. While I have limited knowledge of the quality of the various cooperating departments, I have great confidence in the group from the ISDS Department to deliver high-quality courses (as well as to provide excellent student mentoring).

One particularly progressive aspect of the curriculum is the inclusion of courses covering the social aspects of analytics: ethics / privacy, and cognitive biases. For better or worse, are all increasingly reliant on automated decision making in every aspect of our lives. The people who design the next generation of the systems making the decisions clearly need to do a much better job addressing the societal impacts of their work: data privacy, algorithmic transparency, reinforcement of social biases, etc. I am thrilled to see formal training in these areas included in the curriculum, and I hope that such issues will be weaved throughout the program. Second, the emphasis on practical applications is entirely appropriate. Many if not most of the graduates of this program will most likely be entering the corporate job market, and the additional applied requirements ensure that they will be ready to take on practical challenges faster and at a higher level than most of their PhD peers.

My only real concern with the curriculum is the flip side of its comprehensiveness: there are a lot of required hours, and they come quickly. Fourteen courses in two years, along with a graduate research appointment, will not allow much time for research early on. Similarly, with a large number of required courses, students interested in picking up expertise in an application area (e.g., healthcare) will have little time to do so. As such, it feels more ‘data science’ than ‘informatics.’

The administrative structure of an interdisciplinary program is crucial for its success, and this proposal gets the two biggest issues right. To have ongoing buy-in from all of the participating units, they will need a real say in the ongoing administration of the program. The executive committee consisting of representatives from every participating department might be a little unwieldy but is crucial for maintaining the sense of ownership across the partners. However, every program needs a home; recruiting, student services, appointments, and other administrative issues, down to guaranteeing students an office, all need to be handled by people with expertise in program administration. Housing the program in the Muma College of Business, which has a solid history of operating successful graduate programs, rather than centrally, strikes me as being crucial to its success. Based on my experience, they have hit the sweet spot here with an interdisciplinary team designing the curriculum of a program administered by an academic college.

The internal articulation agreement that has been signed to assure space for the students in courses offered by the various departments is an excellent start towards ensuring long-term successful cooperation among the departments. I would encourage the group to work out similar agreements for student support during the next year. Ideally, units other than Muma could allocate a slot or two for teaching assistant positions for students not supported on research funds. Secondary issues, such as specific procedures for handling course substitutions (for which I predict there will be many requests) could also be handled during this time period.

In summary, I find every reason to believe that the proposed program will be successful. The curriculum is rigorous, innovative and well-designed. The partnership across multiple departments will take careful coordination that may take a year or two to refine, but can work well if all parties
are given a stake in the overall direction. The Muma Collage of Business is an ideal home for program administration. I would be happy to answer any further questions, and I look forward to enthusiastically encouraging my better students to apply.

Sincerely,

Nick Street
Henry B. Tippie Research Professor in Management Sciences
Appendix E – CVs
Curriculum Vitae
Wolfgang S. Jank
February 19, 2019

Current Position:
Anderson Professor of Global Management  
Department of Information Systems and Decision Sciences
Muma College of Business
University of South Florida

1 Education

1996-2001  Doctor of Philosophy in Statistics
Department of Statistics, University of Florida, Gainesville
1990-1996  Bachelor & Masters in Mathematics
Department of Mathematics, Technical University of Aachen, Germany
1994      European Community Fellow
Ecole Nationale Superieure Agronomique, Universite de Montpellier, France
1992      European Community Fellow
Department of Mathematics, University of York, United Kingdom

2 Academic Experience

2011–present  Professor
Muma College of Business, University of South Florida, Tampa
2007-2011  Associate Professor
Robert H. Smith School of Business, University of Maryland, College Park
2001-2007  Assistant Professor
Robert H. Smith School of Business, University of Maryland, College Park

3 Visiting Positions

2009      Visiting Professor
Otto-Beilsheim School of Management (WHU)
2008      Visiting Professor
Chair for eCommerce, Department of Marketing, University of Frankfurt/Main
2008      Visiting Professor
Department of Statistics, Vienna Business School
4 Most Significant Publications since 2008

4.1 Books

4.2 Peer-Reviewed Journal Papers


### 4.3 Peer-Reviewed Book Chapters


4.4 Peer-Reviewed Conference Papers & Proceedings


BALAJI PADMANABHAN
Information Systems & Decision Sciences
Muma College of Business, University of South Florida
bp@usf.edu

EDUCATION
Stern School of Business, New York University (NYU)
Ph.D. (Information Systems), 1999
Indian Institute of Technology (IIT), Madras (Chennai), India
B.Tech. (Computer Science), 1993

ACADEMIC EXPERIENCE
University of South Florida
Anderson Professor of Global Management (2007+), Associate Professor (2007-2015)
August 2016 – present: Director, Center for Analytics & Creativity
July 2013 – August 2016: Department Chair, Information Systems & Decision Sciences
The Wharton School, University of Pennsylvania
July 1998 – June 2007: Assistant Professor, Operations and Information Management Department

BUSINESS ENGAGEMENT IN ANALYTICS
Consulted and/or worked on data analytics projects with many firms, some include:
• Working with Understory Inc., a learning analytics firm on video analytics (2017-current).
• Built models to investigate the relationship between television viewership and presidential election outcomes in the US with data from Nielsen (2015-current)
• Built analytics and predictive models for loan decisions for Grow Financial (2015-2018)
• Advised Bank of America on social media analytics in the banking industry (2013-2018)
• Working with Suncoast Credit Union on analytics and predictive modeling (2018-current)
• Designed analytics-based valuation models for Turing Points, a homeless charity (2015)
• Advised Urban4M, now Spatially, in designing location-based intelligence (2012-2014).
• Jointly developed an industry-first Citizen Data Science program customized for Jabil Inc. (launched 2016) with a six month program and a two day Executive Data Science program.
• Designed news personalization algorithms which outperformed various leading alternatives in a major financial news site for DailyMe Inc (2009-2011)
• Built psychology/behavior-based retention/churn management models with FedEx Corp (2010-2012).
• Advised Ultrametrics Inc in the design of systems related to human resource analytics (2013-2014)
• Advised Fintech Inc. in the process of designing a novel BI/analytics platform for the industry leading alcoholic beverage payments processing & invoicing provider (2010-2011)
• Built models for 3M on root cause analysis in the context of machine generated data (2012)
• Custom designed and delivered data mining / analytics education for Infosys Inc. & Fintech Inc. (2010)
• Worked with Pfizer Inc. to test pattern discovery algorithms in data (2003-2004)
• Worked with Omnichoice Inc. to evaluate an online decision tool (2004-2005)
• Worked with eWinWin Inc. on data-based strategies for social commerce (2009-2010)
• Advised numerous non-profits and small businesses on effective use of data for online marketing strategies as part of Google’s Online Marketing Challenge competitions (2008-2012)
• Implemented classification algorithms at Morgan Stanley Inc. (1996)
• Worked as research assistant on one of the first data analytics efforts in a business school at NYU on analytics for Nielsen’s scanner data in 1994.
RESEARCH & TEACHING INTERESTS

• Analytics Algorithms & Applications
• Artificial Intelligence and Machine Learning (ML) in Business
• Applications of AI/ML in media, politics, healthcare, operations and social media
• Combining Psychology/Behavioral Economics with Analytics/Machine Learning
• Computational Thinking and Algorithms in Business
• Data-driven Decision Making & Citizen Data Science
• Managing Analytics & Governance

RESEARCH (JOURNAL PUBLICATIONS)


EDITORIAL SERVICE


INVITED TALKS

- University of California at Davis, December 2017
- University of Minnesota, February 2017
DOCTORAL ADVISING

Dissertations Supervised as Chair

• **Lina Bouayad** (Co-chair, 2015), University of South Florida. Dissertation title: “Reducing Healthcare Costs from Analytics”. Currently Assistant Professor at Florida International University in Miami.

• **Arash Barfar** (Co-chair, 2015), University of South Florida. Dissertation title: “Rationality and Organizational Decision Making”. Currently Assistant Professor at University of Nevada at Reno.

• **Shankar Prawesh** (Co-chair, 2012), University of South Florida. Dissertation title: “Agent-Based Models in Business”. First job: Post-Doc, University of Maryland. Currently Assistant Professor at IIT Kanpur, India.
• James McCart (Co-chair, 2009), University of South Florida.
  Dissertation title: “Goal Attainment on Long Tail Web Sites: An Information Foraging Perspective”.
  First Job: PhD Investigator in a healthcare data/text mining group at the Department of Veterans Affairs.
  Dissertation title: “On an Incomplete Data Problem in Modeling: Evidence from Web Usage Mining and a General Purpose Solution”.
  Currently Full Professor at University of Texas at Dallas.
• Yinghui Yang (2004).
  Dissertation Title: “New Data Mining and Marketing Approaches for Segmentation and Promotion Planning on the Internet”.
  Currently Associate Professor at University of California, Davis.
  Also served as a Doctoral Dissertation Committee Member for numerous students at USF and the University of Pennsylvania.

GRANTS & HONORS

• $175,000 Grant from OnQ Inc., an Atlanta based elearning firm (2017-2019).
• $150,000 Bank of America practice center grants for social media monitoring (2013-2018)
• $125,000 Grow Financial practice center grants for predictive analytics in banking (2015-2018)
• $100,000 grant from the Florida High Tech Corridor to study online social shopping (2010)
• $30,000 practice center projects from Fintech Inc (2011)
• $15,000 Trader Planet practice center grant (2014)
• $15,000 practice center project from 3M (2012)
• Part of the USF team that wrote the TEAM grant submission to the state of Florida. TEAM grant was funded for $4.9 million, USF portion $1.4 million (2013)
• $20,000 Pfizer Inc grant, 2002.
• $15,000 Wharton eBusiness Initiative grant, Summer 2001, Summer 2002 and Summer 2004.
• USF College of Business Award for Outstanding Faculty Research, 2012
• Excellence in Teaching Award, Wharton Undergraduate Division, 2003.
• Nominated for the University of Pennsylvania’s most distinguished teaching (Lindback) award, 2003.
• Dean's Fellowship, New York University, 1997.
• Fellowship, New York University, 1993-1996.
• AAAI Scholarship to present at KDD 1996.
• National Talent Scholarship, University Grants Commission, Government of India 1987-93.
BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Sudeep Sarkar

eRA COMMONS USER NAME (credential, e.g., agency login): sudeep

POSITION TITLE: Professor, Computer Science & Engineering
Associate Vice President for I-Corps Programs, USF Research & Innovation

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>Completion Date</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian Institute of Technology, Kanpur</td>
<td>B.Tech</td>
<td>05/1988</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>The Ohio State University, Columbus</td>
<td>M.S.</td>
<td>05/1990</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>The Ohio State University, Columbus</td>
<td>Ph.D.</td>
<td>05/1993</td>
<td>Electrical Engineering</td>
</tr>
</tbody>
</table>

A. Personal Statement

Sudeep Sarkar has more than 25 years of experience in conducting and directing both fundamental and applied research in computer vision, image processing, pattern recognition, and related topics. His research topics have ranged from video image processing to biometrics and medical image analysis of burn scars. He has published more than 200 scientific articles and his Google h-index is 44. To date he has mentored, as major or co-major professor, 21 PhD students and 23 Master students. They are placed in top industries, such as Samsung, Google, Amazon, Raytheon, etc. or at well known government research labs such as Jet Propulsion Labs and Lawrence Livermore Labs. In his administrative capacity, he started and leads the faculty external awards, honors, and prizes initiative. He coordinates and writes trans-disciplinary, university-wide, grants and contract opportunities related to innovation. He is currently the Co-PI on a US Department of Commerce’s i6 Innovation grant and is the director for the NSF I-Corps Site program at USF. He also manages the Florida Center for Cybersecurity inter-university research grant program.

On this project, he would assist with the computational aspects. He has wide experience with generative machine learning methods and has high performance computing platforms in his laboratory, which will be made available for this project.

B. Positions and Honors

**Positions and Employment**
1993—1999: Assistant Professor, Computer Science & Engineering, University of South Florida
1999—2004, Associate Professor, Computer Science & Engineering, University of South Florida
2009—2012: Research Administration Faculty Fellow, Office of Research & Innovation, USF
2004—current: Professor and Chair, Computer Science & Engineering, University of South Florida
2012—current: Associate Vice President for I-Corps Programs

**Other Experience and Professional Memberships**
1995—current IAPR Member
1995—current IEEE Member
1999—2001 Associate Editor for Pattern Analysis and Applications
2004—2010 Associate Editor for IEEE Trans. on Systems, Man, and Cybernetics, Part B
2006—2010 Associate Editor for Pattern Recognition Journal
2008—2012 Associate Editor for IET Computer Vision
2008—2010 Associate Editor for Image and Vision Computing
2010—2012 Chair of IEEE-CS Technical Committee on Pattern Analysis and Machine Intelligence
2010—2012 IEEE Computer Society Distinguished Speaker
2010—2012 Member of Governing Board of the International Association of Pattern Recognition
2009—current AAAS Member
2010—current Charter Member of National Academy of Inventors
2011—current 1999—2003, Associate Editor for IEEE Trans. on Pattern Analysis and Machine Intelligence
2011—current Editor-in-Chief, Pattern Recognition Letters
2012—current Vice-president for Conferences, IEEE Biometrics Council
2013—current Board of Trustees Member of Southeastern Universities Research Association (SURA)
2013—current Board of Directors, National Academy of Inventors.
2016—current Member, Sigma Xi: The Scientific Research Society

Honors
1995 CAREER Award, National Science Foundation
1996 Teaching Incentive Program Award, University of South Florida
1998 Outstanding Undergraduate Teaching Award, University of South Florida
2004 Ashford Distinguished Scholar Award, University of South Florida
2008 Fellow of the International Association of Pattern Recognition (IAPR)
2013 Fellow of the Institute of Electrical and Electronics Engineers (IEEE)
2014 Fellow of the American Association for the Advancement of Science (AAAS)
2016 Fellow of the American Institute for Medical & Biological Engineering (AIMBE)
2017 Fellow of the National Academy of Inventors (NAI)

C. Contribution to Science

1. High-level scene interpretation from images and video
The main challenges of event recognition are threefold. First, it is difficult to handle the enormous variety of interactions present in different instances of a complex event. The second problem involves rejecting clutter of extraneous objects so that only the participating ones are considered. The third problem stems from errors in classification of objects and actions. How do we leverage the success of deep-learning/machine learning based labeling methods into building a detailed semantic description of a complex event? We explored the combinatorial approach based on Grenander's canonical pattern theory (CPT) framework and representations. We have formulated a comprehensive and elegant formulation that can handle all these three kinds of challenges, without the need for an extensive training dataset. We have demonstrated a pattern theory approach that can (i) handle the structural variability of complex events without requiring extensive training data but exploiting readily available ontological information or exploiting pairwise semantic weights existing in knowledge bases such as ConceptNet; (ii) overcome classification errors of machine learning classifiers of actions and objects, from multiple modalities such as sound and vision; (iii) able to handle scene clutter, i.e. extraneous objects that do not participate in the activity present in the scene and missed detection of objects and actions; and (iv) able to handle sequences of elemental events, all without retraining. Key results are presented in the following sections. Funding Source: National Science Foundation


2. Human Skin Color and Elasticity from Images
The goal of this work was to develop a non-invasive imaging device based on regular 2-dimensional color images and 3-dimensional (3D) range images that can be used to collect data about the physical characteristics of human skin in terms of its color, texture, and elasticity. The applications for such measures
are in domains where objective evaluation of skin condition is critical, such as in evaluating burn scars and in diagnosing skin melanoma. We used physics based computer vision methods to correct for image distortions due to incident illumination, location of light source, shading due to shape changes, and camera response non-linearities. In this regards we have developed a novel scheme to calibrate light sources with respect to the camera. Statistical image-based measures, defined on the color and the range image, capture the severity of the skin abnormality in terms of its color and tactile texture. We used Finite Element Model, which captures non-rigid behavior of the skin, to estimate scar elasticity. These models are driven from the captured image data and estimate changes in skin elasticity, such as that in a burn scar, using an iterative gradient descent minimization procedure. In future, these objective image-based measures against the histological state of the skin, captured using measures defined on the underlying collagen fiber density & organization, blood vessel density, melanin & melanocyte density, elastin density, and dermis & epidermis thickness. Funding Sources: The Whitaker Foundation, NSF, and by the US Army.


The ability of being to identify humans from a distance in a passive manner has obvious applications in surveillance and threat assessment. However, there are other possible innovative uses, such as in smart rooms, designing environmentally aware electronic devices, and next generation computer games. In this general context, we are (i) researching modalities to recognize persons from a distance using image and video data, and (ii) looking into privacy and security related issues. We have developed the HumanID Gait Challenge Problem that has become the defacto standing in evaluating gait recognition algorithms. We have been conducting extensive research in the combination of multiple biometric modalities such as combination of ear and face, face and gait, and face and voice. Our experiments all use real multiple biometric data from the same subject pool and are focused toward outdoor situations. We have formulated a novel scheme to reconstruct face images from match scores, exposing a potential source for security breach in the face recognition systems. Funding Sources: DARPA HumanID at a Distance program, US Army and STS Intl., SOCOM (via USF-NSF I/UCRC Center), Unisys Corporation, CIA, Raytheon Inc.


4. Automated Sign Language Recognition
Sign languages are complex, abstract linguistic systems, with their own grammars. Our contribution were in formulating automated algorithms that can take sign language video of and recognize the signs performed. This would be useful in facilitating the communication between Deaf and hearing persons. We went beyond the recognition of isolated signs to the detection and recognition of continuous signs in short sentences based on video, without the use of special equipment such as data gloves or magnetic markers. Our contributions were in scalable formalisms for representation, model learning, and matching methods that are robust to image segmentation errors. Funding Source: National Science Foundation.


5. Perceptual Organization of Images and Video

Establishing object identity by matching object models, be they in the form of templates or graphs, to images is a computationally expensive process. One way to reduce the complexity is to identify groups (subsets) of image features or image regions that most likely belong to one object. This grouping process should be a generic one and should not depend on the object identity in a strong manner. Gestalt psychologists realized the integral role of perceptual organization in the human vision system in the early 1920’s. The perceptual organization process imparts robustness, efficiency, and a qualitative and holistic nature to vision. Our contributions spanning 15 years are in the formulation of (i) probabilistic Bayesian networks to organize features into highly plausible sets of higher-level geometric features; (ii) analytical modeling and empirical evaluation of graph spectra based framework to form large perceptual groups from relations defined over small number of image primitives; (iii) a learning framework, based on game theory and learning automata, to adapt the perceptual grouping process to an image domain; (iv) extension of the use of perceptual organizational principles to the domain of dynamic scene analysis, to track geometric groups and to segment moving object in a manner that is robust with respect to noise, background noise clutter, and illumination changes. **Funding Source:** Multiple National Science Foundation grants, Neilsen Media Research, USF.


**Complete List of Published Work in MyBibliography:**

- [https://scholar.google.com/citations?user=xX2D9FQAAAAJ&hl=en&oi=ao](https://scholar.google.com/citations?user=xX2D9FQAAAAJ&hl=en&oi=ao)
- [http://dblp.uni-trier.de/pers/hd/s/Sarkar:Sudeep](http://dblp.uni-trier.de/pers/hd/s/Sarkar:Sudeep)

**D. Research Support**

**Ongoing Research Support**

National Science Foundation Dubey (PI) 9/1/2018-8/30/2021

*M3X: Achieving Autonomy by Learning from Sensor-Assisted Control in a Wheelchair-Based Human-Robot Collaborative System*, National Science Foundation.

The assistive context can be leveraged to build data and test of abductive reasoning to infer the user intent from sensory data.

Role: Co-PI
DoD/VA  Goldgof (PI)  9/1/2016-8/30/2019
An Automated Pressure Ulcer Monitoring System to Improve Pressure Ulcer Healing Outcomes for Veterans with SCI, DoD/Veterans Administration.
This project has no overlap with current proposed project.
Role: Co-PI

An Automated Pressure Ulcer Monitoring System to Improve Pressure Ulcer Healing Outcomes for Veterans with SCI, DoD/Veterans Administration, 2016-2019, (Goldgof, Sarkar, Yu), $177,248

National Science Foundation  Tu (PI)  9/1/2015-8/30/2019
II-New: A Research Platform for Heterogeneous, Massively Parallel Computing, National Science Foundation.
The GPU/CPU high-end computing platform constructed with this grant would be leveraged to run the developed codes.
Role: Co-PI

National Science Foundation  Sanberg (PI)  4/30/2015-3/30/2020
I-Corps Site: University of South Florida: Catalyzing Research Translation, National Science Foundation
This grant for delivering the I-Corps Lean Launchpad curriculum to help student/faculty teams to translate STEM research breakthroughs into viable commercial product designs.
Role: Co-PI and Director

National Science Foundation  Dubey (PI)  8/1/2012-8/31/2019
MRI: Acquisition of a CAREN Virtual Reality System for Collaborative Research in Assistive and Rehabilitation Technologies
The goal is to purchase, install, and conduct research using the state of the art virtual reality system.
Role: PI Completed Research Support (last 3 years)

National Science Foundation: I-Corps Sarkar (PI)  8/15/2016-7/31/2017
I-Corps: Semantic Video—From Video to Descriptions.
This I-Corps project involves computer vision analysis of video, using both visual and auditory cues, to create descriptions of the content. The technology has a large variety of potential applications from law enforcement to surveillance to consumer applications.
Role: PI

Lemelson Foundation  Sarkar (PI)  10/1/2013-4/30/2017
Support for National Academy of Inventors Annual Meeting.
Role: PI

National Science Foundation  Sarkar (PI)  9/1/2012-9/30/2016
Ontology based Perceptual Organization of Audio-Video Events using Pattern Theory
The project is about formulating a pattern theoretic framework for the analysis and deep understanding of event and activities as captured by audio & video sensors in an automated manner using computer algorithms.
Role: PI

Role: Co-PI Completed Research Support (last 3 years)

US Department of Commerce  Sanberg (PI)  4/31/2015-3/31/2018
i6 Challenge Grant Tampa Bay FirstWave Venture Center Expansion
In co-operation with Tampa-Bay Wave, to expand the innovation accelerator, for a broad range of technologies. The business contacts from this project could be leveraged for the current proposal.
Role: Co-PI
Tapas K. Das  
Professor and Chair, Department of Industrial and Management Systems Engineering  
University of South Florida, Tampa, Florida 33620  
Ph. (813) 974-5585, email: das@usf.edu  

=====================================================================  

Education  
National Institute of Technology, Durgapur, India  
Mechanical Engineering  
B.S. 1979  

Birla Institute of Science & Technology, Pilani, India  
Project Engineering  
M.S. 1982  

University of South Florida, Tampa, FL  
Industrial Engineering  
M.S. 1986  

Texas A&M University, College Station, TX  
Industrial Engineering  
Ph.D. 1989  

Professional Experience  
2012-  
Chair, Department of Industrial & Management System Engineering, University of South Florida, Tampa, Florida.  

2008-2010  
Associate Provost, Policy Analysis, Planning, and Performance, University of South Florida, Tampa, Florida.  

2001-  
Professor, Department of Industrial & Management System Engineering, University of South Florida, Tampa, Florida.  

1996-2001  
Associate Professor, Department of Industrial & Management Systems Engineering, University of South Florida, Tampa, Florida.  

1992-1996  
Assistant Professor and Graduate Program Coordinator (‘94-‘96), Department of Industrial & Management Systems Engineering, University of South Florida, Tampa, Florida.  

1989-1992  
Assistant Professor, Department of Industrial Engineering, Southern Illinois University at Edwardsville.  

1986-1989  
Research/Teaching Assistant, Department of Industrial Engineering, Texas A&M University, College Station, Texas.  

1985-1986  
Teaching Assistant, Department of Industrial and Management Systems Engineering, University of South Florida, Tampa, Florida.  

1979-1985  
Senior Design Engineer, Development Consultants Pvt. Ltd., Calcutta, India.  

Selected Products  

U.S. Patents Received  


Publications (*Ph.D. advisee)  

https://doi.org/10.1016/j.energy.2018.10.171  

https://doi.org/10.1016/j.disopt.2018.06.005  

91  

330


**Synergistic Activities**

- I have been engaged since 2003 in developing and testing models and solution algorithms to guide the policy makers in instituting sustainable market rules for emissions control, green penetration, generation expansion strategies, and incentive policies to promote net zero energy buildings. Some of the above work has been partially supported by an NSF grant ECS-0400268 and a grant from the FESC (Florida Energy Systems Consortium).

- I have served as director (and PI) of a National Science Foundation funded GK-12 project directed towards training graduate (mostly doctoral) Fellows to attain skills for pedagogy, communication, leadership, and team work. The project mentored over 25 graduate (Ph.D. and M.S.) Fellows. The Fellows and PIs together developed a number of innovative summer camps titled Water Splash (2004), Space (2005), Light Photons and Beyond (2006), Interstellar Nano Adventure (2007), and Green Scientists (2008). This project also developed a number of science lessons and hands-on activities that are published in the peer reviewed website TeachEngineering.org. The project reached nearly 700 K-5 students each year with science lessons and hands on activities in elementary schools in Tampa Bay area, and increased science content knowledge for over 60 teachers each year through Saturday Mentor Teacher Seminars.
NAME: Beckstead, Jason

eRA COMMONS USER NAME (credential, e.g., agency login): jbeckste

POSITION TITLE: Associate Professor, College of Public Health, University of South Florida

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>Completion Date MM/YYYY</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Oklahoma</td>
<td>B.S.</td>
<td>1983</td>
<td>Psychology</td>
</tr>
<tr>
<td>State University of New York at Albany</td>
<td>Ph.D.</td>
<td>1990</td>
<td>Experimental Psychology</td>
</tr>
<tr>
<td>Rensselaer Polytechnic Institute, Troy, NY</td>
<td>Post-Doc</td>
<td>1993</td>
<td>Specialized in applied experimental design in psychology of lighting &amp; human factors research</td>
</tr>
</tbody>
</table>

A. Personal Statement

As a quantitative methodologist, my expertise in measurement theory and data analysis. I am also an experimental psychologist with expertise in judgment and decision making. My skills will augment the content expertise held by the PI and other members of the research team. I will contribute significantly to the research design, analyses, and interpretation of the results that serve as an integral part of the proposed work.

B. Positions and Honors

Positions and Employment

1998- Associate Professor; Quantitative Methodologist, University of South Florida, Tampa, FL
2008  Grant Review Panelist: Human Dynamics Program, National Science Foundation
2012  Grant Review Panelist: Decision Risk & Management Sciences, National Science Foundation
2007- Statistical Editor, International Journal of Nursing Studies

Honors

2008  Hammond-Brunswik New Investigator Award, Brunswik Society

C. Contribution to Science

Statistics and measurement for applied researchers. Educating future generations of health science researchers to use quantitative methods is fundamental to ensuring evidence-based practice. In my role as Statistical Editor for the International Journal of Nursing Studies I have written a short series on key topics. These have been cited frequently and have been part of assigned readings in various graduate courses in health and social sciences.


**Sequential context effects in clinical judgment and decision making.** Contrast and assimilation have been studied in psychophysical experiments for decades. In 2008 I was the first to show that such effects manifest in multi-attribute stimuli (e.g., patient profiles) as used in judgment analysis studies. The impact of these effects on learning strategies for online medical education tasks is currently underway with colleagues.


**Clinical Decision-Making.** I have applied Brunswik’s Lens Model to various aspects of clinical judgment and decision making.


**D. Research Support. Current, Pending, and Completed.**

b. R01 5DK108522-02 (Colemen, PI), Project Period: 2015-2020, NIDDK Predictors of Weight Loss Failure and Regain in Bariatric Surgery Patients. Role: Co-Investigator. (5% effort)
a. Professional Preparation

University of New Orleans  
Physics  
B.S., 1991

University of Illinois, Urbana-Champaign  
Psychology  
M.A., 1999

University of Illinois, Urbana-Champaign  
Psychology  
Ph.D., 2002

b. Appointments

April 2015 – Present  
Professor, Psychology, University of South Florida  
• I-O Psychology Area Director (August 2018 – Present)  
• Associate Chair (April 2013 – August 2018)

May 2008 – April 2015  
Associate Professor, Psychology, University of South Florida  
• Graduate Program Coordinator (August 2012-13)

May 2003 – May 2008  
Assistant Professor, Psychology, University of South Florida

July 2002 – May 2003  
Assistant Professor, Psychology, Georgia Institute of Technology

c. Publications

(i) Five Publications Most Related to the Proposed Program


(ii) Five Other Significant Publications


d. Synergistic Activities

1. Currently serving on the American Psychological Association (APA) Council of Representatives (COR), representing the Society of Industrial and Organizational Psychology (SIOP; APA div.14). This elected position carries a concurrent role on the SIOP Executive Board. In SIOP, I also serve on the Workshops Committee, which organizes sessions for continuing education sessions at annual conferences, and the External Relations Committee, which liaises with and helps to recruit members for committee and board positions in other professional societies. Prior to that, I chaired the SIOP Scientific Affairs Committee, which promotes scientific rigor in research and practice, highlights activities of SIOP members that positively impact organizations and society and assists leadership with science funding advocacy activities.


5. Currently working with the U.S. Army Research Institute (ARI) to improve high-stakes noncognitive testing methodology and examine the use of assessments, personality, in particular, for the selection of Soldiers.
Leslaw Skrzypek  
Associate Professor  
Department of Mathematics and Statistics  
University of South Florida  

PROFESSIONAL PREPARATION  
- Jagiellonian University, Kraków, Poland  
  Mathematics  
  M.S., 1998  
- Jagiellonian University, Kraków, Poland  
  Mathematics  
  Ph.D., 2001  
- University of California, Riverside, CA, Postdoctoral NATO Advanced Fellowship  
  2003  

APPOINTMENTS  
- 2014-present  
  Chair, Mathematics & Statistics  
  University of South Florida  
- 2009-2014  
  Assoc. Chair, Mathematics & Statistics  
  University of South Florida  
- 2010-present  
  Associate Professor of Mathematics  
  University of South Florida  
- 2003-2009  
  Assistant Professor of Mathematics  
  University of South Florida  
- 2001-2003  
  Assistant Professor of Mathematics  
  Jagiellonian University  

PRODUCTS  
Five Relevant Publications:  
1. Sears, R., Hopf, F., Torres, A., Casey, W., Skrzypek, L.  
   Plan-Do-Study-Act (PSDA) Cycles and Interdisciplinary Conversations to Transform College Algebra,  
   Published online (2018) PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies)  
   https://doi.org/10.1080/10511970.2018.1532938  
2. Deregowska, B., Foucart, S., Lewandowska, B., and Skrzypek, L.  
   On the norms and minimal properties of de la Vallée Poussin’s type operators,  
   Monatshefte für Mathematik 185, (2018), 601–619  
3. Lewicki, G., and Skrzypek, L.  
   Minimal Projections onto Hyperplanes in $R^n$,  
4. Shekhtman, B., and Skrzypek, L.  
   On a Characterization of Hilbert Spaces through Minimality of Orthogonal Projections and Related Topics,  

**Five Other Publications:**


**SYNERGETIC ACTIVITIES:**

1. Chair, Mathematics and Statistics Department, University of South Florida, 2014-current.

2. Associate Chair, Mathematics and Statistics Department, University of South Florida, 2009-2014.

3. Director of CAS Complex Data Center, Mathematics and Statistics Department, University of South Florida, 2014-current. The goal of the center is to provide an integrated, interdisciplinary, synergistic response to mathematical based computational challenges and opportunities stemming from basic research in natural science and cognitive and social sciences. One of the priorities is to attract and train graduate students to prepare them for the new challenges of the modern workforce, by combining fundamental research with industry-oriented project development.

4. Member of the Planning Team for NSF WIDER grant titled, *Transforming STEM Teaching in a Large Urban-Serving University* (Award No. 1347753, 2014-current) and member of the TILT Team for NSF STEER grant titled, *Systemic Transformation of Evidence-based Education Reform* (Award No. 1525574, 2015-current).

5. Fulbright Grant in United States (2000-2001). The Fulbright program is the Florida International Education Exchange Program sponsored by the U.S. government. It is designed to increase mutual understanding between the people of the United States and people from other countries.
1. PERSONAL INFORMATION

a. Education

- PhD (Business Administration), Ross School of Business, University of Michigan, USA, 2005.
- PGDM (equivalent to MBA), Management Development Institute (MDI), Gurgaon, Haryana, India, 1998.
- Bachelor of Engineering (Honors), University of Roorkee (now known as Indian Institute of Technology, Roorkee), Uttarakhand, India, 1990.

b. Professional Experience

- Muma College of Business, University of South Florida, USA
  - World Class Scholar and Professor, Aug 2018--Present

  Robert H. Smith School of Business, University of Maryland, USA (August 2005-Present; On Leave 2018-2019)
  - Ralph J. Tyser Professor of Information Systems, Fall 2017--Present
  - Professor (Decision, Operations and Information Technologies), Fall 2014--Present
  - Associate Department Chair (Decision, Operations and Information Technologies), Aug 2010-Summer 2014
  - Associate Professor (Decision, Operations and Information Technologies), Aug 2010-Summer 2014
  - Assistant Professor (Decision, Operations and Information Technologies), Fall 2005-Summer 2010

  Hong Kong University of Science and Technology (HKUST), Hong Kong
  - Visiting Professor; Instructor for “Research Opportunities at Disciplinary Interfaces” class (July 2018)

- Muma College of Business, University of South Florida, USA
  - Visiting Professor (June-Aug 2018)

- University of Mannheim, Germany
  - Visiting Professor; Instructor for “IT Management in the Digital Age” class (May-June 2017)

- Graduate School of Management, University of California Davis, USA
  - Visiting Professor; Instructor for “Management Information Systems” class (July-August 2012)

- Ross School of Business, University of Michigan, USA (Sep 2000-August 2005)
  - Research and Teaching Assistant (Sep 2000-August 2005); Instructor for “Introduction to Information Systems” class for undergraduates (May 2003-June 2003)

- Tata Ryerson, India (Nov 1997- August 2000) [Tata Ryerson is now Tata Steel Processing And Distribution Ltd]
  - Regional Manager, North India (Dec 1999-Aug 2000); Executive Assistant to CEO (Nov 1997-Nov 1999)
Tata Steel, India (July 1990-Oct 1997)
- Assistant Manager (Jan 1994-Oct 1997, study leave from July 1996 to June 1997); Senior Officer (July 1990-Dec 1993)

c. Engagement with Professional Associations
- Association for Information Systems (AIS)
- The Institute for Operations Research and the Management Sciences (INFORMS)
- Advanced Practices Council (APC) of the Society for Information Management (SIM)
- IEEE
- Association for Computing Machinery (ACM)
- Academy of Management (AOM)
- American Marketing Association (AMA)
- Production and Operations Management Society

2. RESEARCH, AND SCHOLARLY ACTIVITIES

Research Interests
- Strategies for managing innovation and excellence for corporate transformation, focusing on the role of technology and other intangibles such as customer satisfaction, human capital, and organizational capabilities.

a. Books

Books authored

Refereed Chapter(s) in Books

b. Articles in Research Journals


21. Han, K., and Mithas, S. "The Real Savings From IT Outsourcing, available at
Influence Digital Business Strategy," MIS Quarterly (37:2) 2013, pp 511-536
23. Han, K., and Mithas, S. "Information technology outsourcing and non-IT operating costs: An empirical
investigation," MIS Quarterly (37:1) 2013, pp. 315-331
24. Tafti, A., Mithas, S., and Krishnan, M.S. "The Importance of IT-Enabled Flexibility in Alliances,
25. Tafti, A., Mithas, S., and Krishnan, M.S. "The Effect of Information Technology Enabled Flexibility on
Formation and Market Value of Alliances," Management Science (59:1) 2013, pp. 207-225
European Research Paper of the Year 2013 Award given by CIONET, an organization of about 4000
CIOs in Europe]
Government-Citizen Trust Relationship," Journal of Public Administration Research and Theory (21:2) 2011,
pp 257-283
Performance," MIS Quarterly (35:1) 2011, pp 237-256
31. Whitaker, J., Mithas, S., and Krishnan, M.S. "Organizational learning and capabilities for onshore and offshore
a lead research article)
33. Fornell, C., Mithas, S., and Morgeson, F.V. "The Economic and Statistical Significance of Stock Returns on
pp 740-752
35. Mithas, S., and Krishnan, M.S. "From association to causation via a potential outcomes approach," Information
Systems Research (20:2) 2009, pp 295-313
Journal of Research in Marketing (26:2) 2009, pp 162-163 [Invited and reviewed by the editor]
37. Mithas, S., Jones, J.L. and Mitchell, W. "Buyer intention to use Internet-enabled reverse auctions: The role of
38. Ramasubbu, N., Mithas, S., Krishnan, M.S., and Kemerer, C.F. "Work Dispersion, Process-Based Learning and


44. Mithas, S. and Jones, J.L. "Do Auction Parameters Affect Buyer Surplus in E-Auctions for Procurement?" *Production and Operations Management* (16:4) 2007, pp. 455-470


3. TEACHING, MENTORING AND ADVISING

a. Course (s)

   (i) PhD Course (s)
   - Research Methods (University of Maryland)
   - Current Research in Information Systems (University of Maryland)
   - Opportunities for Research at the Disciplinary Interfaces (HKUST)
   - Behavioral Research Methods (USF)

   (ii) MBA/ Online MBA Course (s)
   - Strategic and Transformational Information Technology (MBA Core/Selective Course, University of Maryland)
   - IT and Organizational Transformation (MBA Elective Course, University of Maryland)
   - Management Information Systems (UC Davis)
   - Social Media and Web 2.0 (MBA Elective Course, University of Maryland)
   - Competitive Advantage Through an India Strategy (MBA Elective Course, University of Maryland)
   - Crafting India and China Strategies for Competitive Advantage (MBA Elective Course, University of Maryland)
CV-Mithas.docx 6 of 6

• Faculty Advisor for CIBER Consulting Project in India (Fall 2013)

4. SERVICE

a. Professional Activities
(i) Conference Chair/ Track Chair/ Program Committee Member
• Founded and co-chaired Digital Innovations, Transformation, and Society Conference 2018 (DIGITS 2018) at the India Habitat Center in New Delhi on January 13-14, 2018, co-organized by the University of Maryland and Birla Institute of Management Technology (Bimtech). The conference received enthusiastic support of leading academic scholars from around the world, and was co-sponsored by Heinz School at the Carnegie Mellon University, University of Arkansas, University of Colorado at Denver, and IIT Delhi.

• Program Committee member for INFORMS Conference on Information Systems and Technology (CIST) 2017, Houston.

• Program Committee member for INFORMS Conference on Information Systems and Technology (CIST) 2016, Nashville.

• Program Committee member for INFORMS Conference on Information Systems and Technology (CIST) 2015, Philadelphia.

• Member of the All Academy Theme Committee for the 2014 Annual Academy of Management (AOM) Meeting (The Power of Words), Philadelphia.

• Program Committee member for INFORMS Conference on Information Systems and Technology (CIST) 2013, Minnesota.

• Organized IT Teaching Workshop at the Smith School at the University of Maryland (with Peng Huang, Hank Lucas and Ritu Agarwal), May 2013

• Track Co-Chair for "E-business and Competitive Strategy" for International Conference on Information Systems (ICIS) 2012, Orlando, Florida.

• Track Co-Chair for "IT Services and Sourcing" for AMCIS 2011, Detroit, MI.

• Program Committee member for 13th INFORMS Conference on Information Systems and Technology (CIST) 2008, Washington, DC.

• Program Committee member for Workshop on Information Systems Economics (WISE) 2007, Montreal, Canada

• Program Committee member for 11th INFORMS Conference on Information Systems and Technology (CIST) 2006, Pittsburgh

• Program Committee member for 10th INFORMS Conference on Information Systems and Technology (CIST) 2005, San Francisco
Appendix F – Survey

Results of a Spring 2019 survey of 47 students enrolled in USF’s M.S. in Business Analytics and Information Systems program that resulted in 24 of the surveyed students indicating a strong interest in pursuing a Ph.D. program in Informatics and Big Data Analytics, if it was offered.
PHD in Big Data Analytics

From a commercial point of view, this program looks very promising and appealing. Though I am uninterested in doing a PhD program as of now, I would take up the course whole-heartedly should I consider doing one in future.

Such is the diversity of the course that it covers psychology, ethics, mathematics and computer science and it stands a very good chance at being accepted by a wide variety of students if introduced.
This is an interesting course. I would have wanted to be a part of such a program if I wished to pursue my Ph.D.

The curriculum is extensive. The range of courses covered is phenomenal. The intake on the number of students should be increased from 3-4.
1. I would definitely be interested in this program because it is spread across various disciplines, and also because the program has been specially designed for students who have a masters in BAIE. Also, I find exciting the fact that the program can be completed in 3 years.
Definitely interesting program, particularly because it an interdisciplinary program.
Focus on interesting coursework, definitely makes it attractive.
Yet, if the program is like this I might go ahead for PhD.

I like the course structure. But, still I am not sure about my future plans.
The program is really interesting, and promising. Some courses does seem heavy on the book, but if properly chosen, the candidate might work through them.

It's really good that it interdisciplinary and the candidates are getting to learn courses like ethics, psychology and human behavior. It will make the decision making ability more apt.

After gaining some more industry knowledge and experience it would be requiring to obtain a PhD, this type of course is really considerable.
Yes, I would take this program.

Comment: The program is diversified across all the sections of Data Science. It should be tagged as Data Science instead of Big Data Analytics.
Yes, I would definitely like to enroll for this course as it is highly interdisciplinatory which interests me the most.

Why not offer this course to working professionals or someone who works in the industry already and would like to do a post to be more knowledgeable and climb up the ladder in industry.
Big Data Analytics

i) If program is like this, I would love to be part of it.

ii) Most interesting part of course is variety of courses available & some of the out of the box courses like ethical use of data.

iii) As it is designed as per industry focus, it also adds up value to it.

iv) One suggestion, if someone wants to focus on particular area, that should be made available, like one small specialization for ex. nanodegree program from Udacity.
Q. Is the course/program interesting?
A. Definitely, yes!

Q. Would I enroll in it?
A. Yes

Q. Why would someone be interested in such program?
A. Since we are living in a competitive world, it is expected from a candidate to know everything. Sometimes industry takes this a little literally. So, the program being focused on industry gives a good exposure to the candidate in different distinct disciplines. This would fit the proverb: Jack of all, Master of none. And that's what industry looks for in a potential candidate.
YES, I WILL BE INTERESTED IN SUCH A

PHD PROGRAMME.

Things which work well:

1) Industry-focused courses — changing the way people link PhD candidates to academia.

2) Large-scale Big Data project with industry — gives hands-on exposure to real-life business problems & identify how to approach such a problem.

Things I would love to have:

1) A little more focus on publishing content in high journals (like a course or some resources imbued in the programme).
I'm interested in the program. I want to learn more about the technical side of data science field and this program does focus on programming and statistics. Another good thing is that the program only take 3-4 years to complete and it is built on the industry's needs. I think a student graduated from this program will have wonderful job opportunities from many big companies.
Yes, I will be interested in pursuing this program due to its unique focus on industry and research. This would be useful if someone is not pursuing a career path in academia. An interesting blend of courses from computer science, psychology, and AI might place this program at the cutting edge.

Feedback:

— Would the program require a U.S.-based master's education and could it be a combined 3-year program for new students also?
A PhD in Big Data Analytics is interesting!

The advantage that this program has is the multi-disciplinary approach. However, the industry focus of this program could distract the students from seeking the deep understanding of one field.

The name of the program could also change in future to consider emerging area rather than "big data".

I would apply to this program as long as it could provide the research aspects of data science.
I only wish I had enough time in life to take up this program. It looks very interesting & helpful.

Also, NO! please do not let students transfer their credits (I mean MS credits) if they have already taken a course from a particular bucket. Let them take another course for that bucket (as prof Balaaji mentioned). That'd be more helpful.
I would be interested in joining a PhD program in Big data analytics. However, I really liked the thought of making new courses in mathematics & statistics mandatory, with which one can really become...
I would be very much interested in this programme. The reason being it is an industry-focused course with the person getting to learn from varying departments such as College of Business and College of Public Health. It also gives on a balance although thorough approach towards Big Data and its ethics.
Yes, I am interested.

The curriculum concentrates more on machine learning, deep learning part but less on Big data architecture or big data systems. Why?

Courses like cloud architecture (AWS) are very helpful for the people who work towards industries. So if these can be a part of main curriculum, it may fulfill the need (this is just my opinion).
If the course is aligned more towards industry, then students will prefer to do masters only rather than going for Ph.D.

Although it is true that the program has great courses and will help in becoming a data scientist/research work.

My suggestion for the program is to tie up with certain organizations in industry and make sure that in last year, students should go work with the company and develop something useful and of value for them.

Yes, if given a chance, I would join this program in near future.
The best part of this program is it has combination of ethics, cognitive biases and causality along with big data analytics. I am currently working on Neuromarketing that is related to cognitive biases, so may think of joining this program later.

**Suggestion:** HCO can be added as a course in this and some basics of Psychology in cognitive biases can also be added.

There can also be an addition of discussion forum with eminent people of various industries to understand real-world problems.
At a first glance the course appears to be highly industry oriented and on that note I strongly recommend to include courses on Computer Vision, Text Analytics courses. Because dealing with unstructured data especially in the areas like Vision and text data is highly demanding skill these days. I would strongly consider to take this course and highly recommend my colleagues who have great Math, Algo and Programming skills.
I would love to go for it, this is one of the areas which I wanted to pursue after I graduate from BAIS program. The curriculum seems to be well-planned plugging in the main aspects of every field which can impact this field.
There should be changes in course curriculum. As this course is offered to a variety of students pursuing different master’s degrees, the course seems to be centered for the students who have prior knowledge of data science. Else the course is well-structured & the courses provided are great.

If this course is provided then I will take admission in it.
Yes, I'm interested in.

It seems a really good program. However, one of my main concerns is about how students in Big Data Analytics program can compete with other students in other departments such as computer science or Industrial Engineering. (Specially in the job market)
The program involves not just and happened to have most on-demand & updated industrial software thought. Only a few industries started using these few of the deep learning & advanced courses.

Coursework looks good.

As there is mechanical & industrial design/planning as well, the course can also add "Internet of Things," analytics, computer vision in the deep learning.

Implementation & connection of these Algo's & models to hardware outputs. So that AI can be enabled & used at its best with ML & CV Algo's.
The program course structure is interesting as it covers most of the
data science concepts. My suggestion would be move the courses
which were taken in BAIS to move into electives and add
other courses in place of that so that students might have
the opportunity to select course from wide area.
As Big Data is already covered in DataSci, people would
leave it aside and tend to choose other options in
Databases/Big Data. If we replace Big Data with other
courses which has Dataware housing concepts or any other
courses which is not covered in BAIS.
May be if the course has Computer Vision and more computer science background courses, it would be helpful in entering the industry as this PhD course is not focused on teaching positions.
The program is good.

It can have few more courses that are inclined towards Data Science like Text Mining and all.

Also, a programming course in Python/R could be of great benefit to students.
Name - Varsha S

This program is a complete package for a Data Scientist. It has a range of courses listed in this program will cover all corners of Machine Learning, Deep Learning & Data Science program.

- Thanks
Prof,

The program for the Ph.D is well constructed. Since it's a personal question, and given the fact that I have pursued my Master's Bachelor's in Mathematics and Computing, I would like to know that going forward will there still be a requirement to pursue the same courses as I already have much of the same courses already under my Bachelor's degree.

P.S. I am yet not sure of the Ph.D program.
This program seems tempting, as it inculcates all the angles required for a person to shine in the industry. However, since the risk involved is high, a more detailed explanation of how the scenario when the final project is not up to the level, how will that be treated? Since it involves many years of effort, and people wouldn’t want it to go in vain.
Program

Looks promising for students who want to pursue higher education. I personally want to go for it since I am not looking to go for higher education.

Comment

If a person is undergraduate in Computer Science and Graduate in MAES, will he be waived off the courses from both the degrees or just the graduate degree courses?

Computer Science subjects like Data Structures, Graph Theory, Design & Analysis of Algorithms, etc.
I do not having a coding background and the course seems to be demanding knowledge on coding/ algorithms. I would opt not to pursue this Ph.D program as I believe I am not suited for it.

I believe that the program is well-balanced in terms of the learning aspects, so I wouldn’t be recommending any changes to the program.
It is evident that a lot of thought went into designing this course as a combination of statistics, computer science and MIS courses are included. It would be great to see a few business management courses like MIS, Project management and Business operations are covered too as the end goal would be to be industry-ready for the PhD graduates.
I found the course structure very interesting. Any one with analytics background who wants to go deep in their field, this can be a very good option.

Although, I may be interested but due to some reasons, cannot go for PhD. But I have some of my acquaintances who would be very much interested in and would be happy more than happy to hear about this course I may also enrol.
Questions:

Is it available Part Time?

- Currently I don't have any plans for PhD.

- Little focus on closed technology would help.

- Overall program looks good to me.
I will be more interested if it is more related to phd in data science or machine learning.

It will be really great if this program should prepare student for academic field rather industry because after getting it done the person should consider him/her self for spreading knowledge.
I like the course structure. It covers everything like math, statistics, computer science, algorithms and big data. Also, I think it's great to have a

PhD program with industry involvement. As the demand for data science is increasing, it's great to have people

day by day gain skills in all aspects of data science.
1) Yes, the coursework seems good.

2) Could add a course on data-cleaning ⇒ to make it more industrial & ready.

3) Could add an elective per say. (domain-specific).
   a) Healthcare analytics or Healthcare Info Systems
   b) Credit Union or banking specific course work etc.

⇒ This might help in making the course better for industrial acceptance.
In my experience and knowledge over the NS in BATS, considering the history of the people who have graduated, it seems that people by and large have a considerable amount of work experience. When they come in, they want to graduate as soon as they want to get back to the industry as soon as possible. So a Ph.D. program somewhat with a similar track that too focused more on industry wouldn't be much of a choice for any, in my opinion. And personally I wouldn't.
THE PROGRAM LOOKS VERY INTERESTING

But I MAY NOT TAKE THIS

Because I am NOT someone who
would go for Ph.D. But yes, as it
covers a lot of different and popular
technologies & concepts. It definitely is
interesting. I like the coursework.
My expectation from PhD, right now are below.

1. Statistic

2. Machine learning / Data Science

3. Data

4. AI

We have course for above topic but we have limitation to the extent.

If I want to dive deep in Data Science or Data Mining concept we don't have a next level courses.

I would like more specific topic driven courses.

Currently I am not interest in the course but it might be interesting in future.

Thank you
1) Program curriculum is very good for the students moving in the field of Data Science. Also, it contains the core subject which are not done by the student who are not from the computer science background.

2) How can the student enroll for this course which one graduate in Dec 2019 should also be mentioned in it.

3) Courses which are related to cloud computing should also be part of the curriculum.
The introduction about the upcoming Ph.D. program was good. The program has courses from different branches of computer science focusing well on the data side. The concentration has a good range of courses right from Big data and Databases to Machine learning and Data Mining. Moreover, the 3 new courses on causality & security and ethics are very beneficial & essential in today’s context.

So, it is definitely a good program.
I feel the program is great. I would think twice while joining this course, as this is an inter-disciplinary course and the chance to go towards teaching or research field after this is very slim. This would have been more interesting if there were courses that are concerned about future technology as the industry requirement always changes and who knows if industry would keep their requirements the same.
PhD in Big Data Analytics

This PhD program seems very interesting and challenging. The interdisciplinary nature of this program is the most interesting & unique opportunity. But at the same time, it might be quite challenging. I think the selection process for selecting candidates should be more than just the GRE scores and their previous background.

Also, if there is an option given to the enrolled students to choose a domain specialization like applying analytics health sciences, biology, e-commerce, engineering areas like electrical, mechanical, etc., it would be great. This way the student can pursue his final independent research in the area of interest.
0. This is an excellent interdisciplinary PhD proposal for students who wanted to serve industry.

0. It might be very difficult to find students who can really tackle versatility of this program.

0. Interdisciplinary nature of this program can be strength as well as weakness of this program.

0. There is a possibility that industry can have much higher weight on this program that they are suppose to exert in academia, that does not necessarily mean it is a bad thing.

0. I think 3 years are not enough for a student unless they already have a very high competence level, at least.

0. I might not take such a program as I have a very academic bend of mind.
Pros:
1. Industry focus. Much more interesting path for me personally.
2. Flexibility of the program due to electives.
3. Relatively short-term. 5 years (typically) is way more than I expect.
4. Robust mathematical fundamentals.

Cons:
1. Though minimal but still significant "research." Though I realize it's a compromise and a "must have" for a Phd program.
2. As usual special purpose vs general purpose dilemma. It may be not clear what roles such program is optimized for.
Agenda Item: FL 105

USF Board of Trustees
June 6, 2019

Issue: B.S. Supply Chain Management – CIP 52.0203

Proposed action: Approval

Executive Summary:

The proposed Bachelor of Science in Supply Chain Management (B.S./SCM) is a 120-credit hour undergraduate program that aims to equip students with the knowledge and skills needed to pursue careers in the supply chain industry. Supply chain management is a business function that ensures the efficient and effective management of the flow of goods, services, and finances among firms to transform raw materials to finished products along with managing reverse flows (e.g., defective or damaged products, product returns, end-of-life disposal) in a sustainable manner.

The proposed B.S./SCM is a direct response to the need for new talent to support Florida’s growing supply chain industry. The development of a supply chain management talent pool is highlighted as a core need for workforce development in the Florida Trade & Logistics Study 2.0 (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development.

The introduction of a bachelor’s degree in supply chain management at the University of South Florida arises from the request by members of the business advisory board of USF’s Center for Supply Chain Management & Sustainability (CSCMS). Currently, USF offers a 12-credit hour undergraduate concentration in Supply Chain Management (SCM) for students enrolled in the B.S./Marketing degree program. Since its introduction in 2014, USF has awarded 99 B.S./Marketing degrees with the SCM concentration.

While employers are pleased with the skills of students who have earned the SCM concentration, advisory board members strongly expressed the need to have a program with greater breadth and depth than can be provided in a 12-hour concentration. A working group of volunteers drawn from the CSCMS advisory board collaborated with supply chain management faculty to develop the B.S./SCM curriculum with a focus on global supply chain management. The current undergraduate concentration in Supply Chain Management will be discontinued when the B.S./SCM is introduced.
Financial Impact:

No new faculty lines are requested because this new degree program will transition from an existing undergraduate concentration in Supply Chain Management in the Marketing program to a degree program in Supply Chain Management within the Department of Marketing. The faculty salaries will be reallocated from the concentration to the new degree program.

Strategic Goal(s) Item Supports:

- USF Tampa Strategic Plan Goal 1: Student Success

BOT Committee Review Date: ACE May 14, 2019

Supporting Documentation Online (please circle): Yes  No

USF System or Institution specific: USF

Prepared by: Donna Davis, Ph.D., Professor, Chair, Department of Marketing
Board of Governors, State University System of Florida

Request to Offer a New Degree Program
(Please do not revise this proposal format without prior approval from Board staff)

University of South Florida, Tampa
University Submitting Proposal

Fall 2019
Proposed Implementation Term

Muma College of Business
Name of College(s) or School(s)

Marketing
Name of Department(s)/Division(s)

Supply Chain Management
Academic Specialty or Field

Bachelor of Science in Supply Chain Management
Complete Name of Degree

52.0203
Proposed CIP Code

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met prior to the initiation of the program.

Date Approved by the University Board of Trustees

President
Date

Signature of Chair, Board of Trustees
Date

Vice President for Academic Affairs
Date

Provide headcount (HC) and full-time equivalent (FTE) student estimates of majors for Years 1 through 5. HC and FTE estimates should be identical to those in Table 1 in Appendix A. Indicate the program costs for the first and the fifth years of implementation as shown in the appropriate columns in Table 2 in Appendix A. Calculate an Educational and General (E&G) cost per FTE for Years 1 and 5 (Total E&G divided by FTE).

<table>
<thead>
<tr>
<th>Implementation Timeframe</th>
<th>Projected Enrollment (From Table 1)</th>
<th>Projected Program Costs (From Table 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
</tr>
<tr>
<td>Year 1</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Year 2</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Year 3</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Year 4</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Year 5</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

1
INTRODUCTION

I. Program Description and Relationship to System-Level Goals

A. Briefly describe within a few paragraphs the degree program under consideration, including (a) level; (b) emphases, including majors, concentrations, tracks, or specializations; (c) total number of credit hours; and (d) overall purpose, including examples of employment or education opportunities that may be available to program graduates.

The proposed Bachelor of Science in Supply Chain Management (B.S./SCM) is a 120 credit hour undergraduate program. The USF B.S./SCM aims to equip students with the knowledge and skills needed to pursue careers in the supply chain industry. Supply chain management is a business function that ensures the efficient and effective management of the flow of goods, services, and finances among firms to transform raw materials to finished products along with managing reverse flows (e.g., defective or damaged products, product returns, end-of-life disposal) in a sustainable manner.

The development of a supply chain management talent pool is highlighted as a core need for workforce development in the Florida Trade & Logistics Study 2.0 (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development. The proposed B.S./SCM is a direct response to the need for new talent to support Florida’s growing supply chain industry. The Florida Department of Economic Opportunity reports that the Trade and Transportation sector accounts for over 1.7 million jobs in Florida. This number is expected to grow by nearly 125,000 jobs from 2018 to 2026, an increase of 7.5%.

The introduction of a bachelor’s degree in supply chain management arises from the request by members of the business advisory board of USF’s Center for Supply Chain Management & Sustainability (CSCMS). Currently, the University of South Florida (USF) offers a 12 credit hour undergraduate concentration in supply chain management for students enrolled in the B.S./Marketing degree program. Since its introduction in 2014, USF has awarded 99 B.S./Marketing degrees with the SCM concentration. While employers are pleased with the skills of students who have earned the SCM concentration, advisory board members expressed the need to have a program with greater breadth and depth than can be provided in a 12-hour concentration. A working group of volunteers drawn from the CSCMS advisory board collaborated with supply chain management faculty to develop the B.S./SCM proposal. The current undergraduate concentration in supply chain management will be discontinued when the B.S./SCM is introduced.

(a) **Level:** Bachelor of Science in Supply Chain Management (B.S./SCM) CIP 52.0203

(b) **Emphases:** Major in Supply Chain Management; no concentrations, tracks, or specializations

(c) **Total number of credit hours:** 120 credit hours

(d) **Overall purpose:** The B.S./SCM equips students with the knowledge and skills required to pursue careers in the field of supply chain management. The overall purpose of the program is to secure entry-level jobs for USF students to meet the need for talent in Florida’s growing supply chain management industry.

*Examples of employment or education opportunities available to program graduates:* Currently,
graduates with the SCM concentration are hired as supply chain analysts and managers across multiple industries. Recent graduates are now working in the supply chain functions for Target, Amazon, Bristol-Myers Squib, Johnson & Johnson, Bloomin’ Brands, Masonite, Citi, Deloitte, C.H. Robinson, Jabil, and Honeywell Aerospace, among others. Starting salaries range from $45,000 - $65,000. Some firms offer signing bonuses ranging from $5,000 - $14,000. While most graduates immediately enter the workforce, a few recent graduates have been accepted into graduate programs in supply chain management at leading universities including Michigan State University and University of Tennessee.

Reference:

B. Please provide the date when the pre-proposal was presented to CAVP (Council of Academic Vice Presidents) Academic Program Coordination review group. Identify any concerns that the CAVP review group raised with the pre-proposed program and provide a brief narrative explaining how each of these concerns has been or is being addressed.

The CAVP Academic Program Coordination workgroup reviewed the pre-proposal on February 6, 2018. No concerns were raised.

C. If this is a doctoral level program please include the external consultant’s report at the end of the proposal as Appendix D. Please provide a few highlights from the report and describe ways in which the report affected the approval process at the university.

Not applicable. This is not a doctoral level program.

D. Describe how the proposed program is consistent with the current State University System (SUS) Strategic Planning Goals. Identify which specific goals the program will directly support and which goals the program will indirectly support (see link to the SUS Strategic Plan on the resource page for new program proposal).

The B.S./SCM directly supports the State University System Strategic Planning Goals (indicated by double check) and indirectly supports other goals (indicated by a check) in the 2025 System Strategic Plan as outlined below.

<table>
<thead>
<tr>
<th>State University System Goals</th>
<th>Excellence</th>
<th>Productivity</th>
<th>Strategic Priorities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching &amp; Learning</td>
<td>✔ Strengthen Quality &amp; Reputation of Academic Programs and Universities</td>
<td>✔ Increase Degree Productivity and Program Efficiency</td>
<td>✔ Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis</td>
</tr>
<tr>
<td>Scholarship, Research, and Innovation</td>
<td>✔ Strengthen Quality &amp; Reputation of Scholarship, Research, and Innovation</td>
<td>✔ Increase Research Activity and Commercialization Activity</td>
<td>Increase Collaboration and External Support for Research Activity</td>
</tr>
<tr>
<td>Community &amp; Business Engagement</td>
<td>✔ Strengthen Quality &amp; Recognition of Commitment to Community and Business Engagement</td>
<td>✔ Increase Levels of Community &amp; Business Engagement</td>
<td>✔ Increase Community and Business Workforce</td>
</tr>
</tbody>
</table>
TEACHING & LEARNING

- **Excellence - GOAL: Strengthen quality and reputation of academic programs and universities**
  Supply chain management programs are annually ranked by prestigious organizations including U.S. News and World Report, Forbes, and Gartner. The proposed B.S./SCM provides the opportunity for USF to gain recognition within the ranks of top-ranked programs including AAU universities such as Carnegie Mellon, Georgia Tech, Massachusetts Institute of Technology, Michigan State, Ohio State, Penn State, and University of Texas/Austin.

- **Productivity – GOAL: Increase degree productivity and program efficiency**
  USF/Tampa is a Florida Preeminent Research University. As a recipient of this prestigious designation, USF is committed to the highest level of program productivity and efficiency with a 90 percent or higher freshman retention rate and a 60 percent or higher four-year graduation rate. Currently, no other Preeminent Research University offers a B.S./SCM. The addition of the B.S./SCM at USF will ensure completion of students’ degree programs in a timely manner. At USF, the Student Success Center uses a pro-active case management system to identify students who are having difficulty with academic progress early in their careers. At no cost to the student, a plan is developed that can include testing, tutoring, and other means of support to ensure each student completes the degree program in a timely manner.

- **Strategic priorities for a knowledge economy – GOAL: Increase the number of degrees awarded in STEM and other programs of strategic emphasis**
  Supply chain management is included in the Florida SUS list of Programs of Strategic Emphasis (CIP 52.0203 Logistics, Materials, and Supply Management) and is categorized as a STEM program. It is anticipated that the proposed degree will add up to 60-70 new STEM graduates each year.

SCHOLARSHIP, RESEARCH & INNOVATION

- **Excellence – GOAL: Strengthen quality and reputation of scholarship, research, and innovation**
  Faculty associated with the proposed B.S./SCM are currently engaged in several collaborative, externally funded research projects that directly benefit the economic development of the state of Florida. For example, faculty associated with the proposed B.S./SCM are currently engaged in a collaborative project to develop and distribute an innovative, sustainable carinata-based (Ethiopian mustard seed) source of alternative fuel and high-protein livestock food with the Southeastern Partnership for Advanced Renewables from Carinata (SPARC) team based at the University of Florida and funded by the U.S. Department of Agriculture.

  Other collaborative research projects include projects with the USF Center for Urban Transportation Research (CUTR) funded by the Florida Department of Transportation: (1) evaluation of inbound-outbound freight flows; (2) developing a GIS tool to determine potential locations of logistics activity centers for use in urban freight transportation planning. Future projects that examine urban freight movement and economic development related to infrastructure investments are in the planning stages.

  Two SCM faculty members are Fulbright scholars. Dr. Jim Stock received a core Fulbright fellowship in Helsinki, Finland where he did research in reverse logistics and sustainable
supply chain management. Dr. Rob Hooker is a Fulbright Specialist in the area of supply chain management. His first engagement was with the Stockholm School of Economics.

- **Productivity – Increase research and commercialization activity**
  The aim of the SPARC project is to commercialize products from in the carinata supply chain. The SCM program indirectly supports commercialization activity by providing expertise to start-up ventures in the Tampa Bay area.

- **Strategic priorities for a knowledge economy – Increase collaboration and external support for research activity**
  In addition to ongoing collaboration with UF and CUTR, we are exploring establishing a research center under the auspices of the Volvo Research and Educational Foundations (VREF) program. VREF provides financial support for establishing Centers of Excellence to create platforms for collaborative research related to the future of urban freight transport (http://www.vref.se/futprogramme.4.64ace19a14615fa7f238d79c.html).

**COMMUNITY & BUSINESS ENGAGEMENT**

- **Excellence – GOAL: Strengthen quality and recognition of commitment to community and business engagement**
  In direct response to the call for statewide collaboration in the supply chain industry, USF brought together a planning group to launch the Florida Supply Chain Summit. Working with a statewide steering committee comprised of representatives from industry, government, and academia, the USF Center for Supply Chain Management & Sustainability led the effort (https://floridasupplychainsummit.com/). The Summit was held in February 2019 and attracted 300 attendees from Florida’s supply chain industry. The mission of the Florida Supply Chain Summit is to provide a platform for statewide collaboration among key representatives from industry, professional organizations, government, economic development agencies, and higher education for the purpose of advancing the state of Florida as a global trade hub. This significant, highly visible effort was in the planning stage for over a year.

- **Productivity – GOAL: Increase levels of community and business engagement**
  The Center for Supply Chain Management & Sustainability hosts a Meet the Employers networking event in fall and spring semesters each year to allow employers to directly interact with candidates for supply chain internships and jobs. The USF CSCMP (Council for Supply Chain Management Professionals) Student Roundtable hosts weekly meetings throughout the academic year with guest speakers from Tampa Bay companies that hire SCM students. The Roundtable also sponsors field trips to area company sites and conducts community service activities. A team of Roundtable students serve as student ambassadors at the national CSCMP conference each year. Travel support for the annual conference is provided by the Central Florida CSCMP Roundtable (comprised of executives from Tampa and Orlando).

- **Strategic priorities for a knowledge economy – GOAL: Increase community and business workforce**
  As noted previously, recent USF graduates with B.S./Marketing with the SCM concentration are now working in supply chain and logistics functions for Florida-based companies including Target, Amazon, Johnson & Johnson, Bloomin’ Brands, Masonite, Citi, Deloitte, C.H. Robinson, Jabil, and Honeywell Aerospace, among others. The majority of students who complete the supply chain concentration immediately enter the workforce.
E. If the program is to be included in a category within the Programs of Strategic Emphasis as described in the SUS Strategic Plan, please indicate the category and the justification for inclusion.

The Programs of Strategic Emphasis Categories:
1. Critical Workforce:
   - Education
   - Health
   - Gap Analysis
2. Economic Development:
   - Global Competitiveness
3. Science, Technology, Engineering, and Math (STEM)

Please see the Programs of Strategic Emphasis (PSE) methodology for additional explanations on program inclusion criteria at the resource page for new program proposal.

The B.S./SCM (CIP 52.0203 Logistics, Materials, and Supply Management) is identified as a Program of Strategic Emphasis (Fall 2014) under the category of Economic Development – STEM. Supply chain management directly supports the distribution, transportation, and manufacturing industries in Florida.

F. Identify any established or planned educational sites at which the program is expected to be offered and indicate whether it will be offered only at sites other than the main campus.

The B.S./SCM will be delivered on the USF Tampa campus. However, after consolidation of the three separate SACSCOC accredited institutions, the delivery on all campuses (Tampa, St. Petersburg, and Sarasota-Manatee) will occur based on student demand and resource availability.

INSTITUTIONAL AND STATE LEVEL ACCOUNTABILITY

II. Need and Demand

A. Need: Describe national, state, and/or local data that support the need for more people to be prepared in this program at this level. Reference national, state, and/or local plans or reports that support the need for this program and requests for the proposed program which have emanated from a perceived need by agencies or industries in your service area. Cite any specific need for research and service that the program would fulfill.

National need: Growth in the logistics sector (bachelor’s degree required) at the national level is projected by the Bureau of Labor Statistics to be 10.3% through 2026, adding nearly 13 million jobs with a median annual wage of $74,590. A recent study published in the Harvard Business Review (Delgado & Mills, 2018) estimates that supply chains contain 37 percent of all U.S. jobs and employ 44 million people: “These jobs have significantly higher than average wages, and account for much of the innovative activity in the economy.” An examination of the drivers of the national shortage of supply chain talent states that “Demand for supply chain professionals exceeds supply by a ratio of 6 to 1” (Harrington, 2015).

State need: The Florida Department of Economic Opportunity and Enterprise Florida identify “Logistics and Distribution” as one of the five major industries for economic growth in the state (Enterprise Florida, 2013). In Florida, employment in this sector is expected to grow 12% through 2025 with a median annual wage of $66,850.
The development of a supply chain management talent pool is highlighted as a core need for workforce development in the *Florida Trade & Logistics Study 2.0* (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development. The report envisions Florida as the leading location for trade and logistics education and training, calling for a globally-oriented talent development program to meet Florida’s business needs and to build professional relationships as the basis for future trade and investment decisions. Indeed, the availability of a trained SCM workforce can be a deciding factor as companies decide where to locate new manufacturing or distribution facilities.

Moreover, employment in the supply chain industry provides well-paying jobs: workers in Florida transportation, trade and logistics earn 30% higher wages than the average for all jobs in the state. An important component of the industry supports globalization: Enterprise Florida reports international trade activity for Florida was $148 billion in 2017 with over $70 billion in exports. The state ranks 8th in the country for exporting, and Florida is home to one in five U.S. exporters (Enterprise Florida, 2018).

**Local need:** The proposal for the USF B.S./SCM emanated from requests by Tampa Bay business partners who serve on the USF Center for Supply Chain Management & Sustainability’s advisory board. Several employers reported the need to hire graduates from universities outside the state of Florida in order to fill open SCM positions. Companies represented on the advisory board include Datex Corporation, Mercury Gate, Marten Transport, Port Tampa Bay, Reed TMS, Citi, Jabil, Mosiac, Masonite, Bristol-Myers Squibb, Bloomin’ Brands, and CH Robinson. Advisory board members strongly requested that USF deliver a major to allow greater breadth in the coursework. They further expressed the need for a program that focuses on global supply chain management.

**Need for research and service:** The vision for the future of Florida is to ensure a globally competitive economy by developing the state as a vibrant hub for international and domestic trade and investment (Florida Chamber, 2013). This vision requires a commitment to a statewide, multimodal system of trade gateways, logistics centers, and transportation corridors that delivers on the promise of efficient and effective freight movement (Florida Department of Transportation, 2010). To achieve this vision, Florida needs a state-wide collaborative platform to identify issues, conduct necessary research, and implement action plans (Pinjari et al., 2015).

To address the need for a state-wide research collaboration, the supply chain management faculty collaborate with researchers in the Center for Urban Transportation Research in the USF College of Engineering to undertake funded research directed at addressing the challenges of logistics-led economic development in Florida. The inaugural statewide gathering of supply industry stakeholders in February 2019 was a direct response to research findings conducted by USF researchers (Pinjari et al., 2015).

In addition, students in the Supply Chain Capstone course will engage with area businesses to conduct field-based research projects related to supply chain management activities. The USF CSCMP Student Roundtable also conducts research for local organizations. For example, student members of the Roundtable worked with Florida’s Habitat for Humanity program in 2018 on a project to analyze Habitat’s supply base. The project identified over $800,000 in potential savings by centralizing key purchases.

**Data sources:**

Florida Chamber of Commerce (October 2013) *Florida Trade & Logistics Study 2.0.*

Florida Department of Transportation (2010). *2060 Florida Transportation Plan.*

Florida Department of Transportation (2013). *Florida Freight Mobility and Trade Plan Policy Element.*


Enterprise Florida (September 2013) *Logistics & Distribution.*
https://www.enterpriseflorida.com/industries/logistics-distribution/


### B. Demand: Describe data that support the assumption that students will enroll in the proposed program. Include descriptions of surveys or other communications with prospective students.

Our experience at USF with enrollment in the current undergraduate supply chain management concentration provides the primary evidence for student demand. Since Fall 2014, USF has offered a supply chain concentration in the B.S./Marketing degree. The 12-hour concentration comprises two courses (6 credit hours) in logistics and supply chain management, one course in international marketing (3 credit hours), and a required internship (3 credit hours). Enrollment in the SCM concentration ranges from 60 – 70 upper-division students per year. Over the past four years, 99 students have graduated with the SCM concentration as displayed on the table below.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduates</td>
<td>7</td>
<td>29</td>
<td>32</td>
<td>29</td>
<td>99</td>
</tr>
</tbody>
</table>

### C. If substantially similar programs (generally at the four-digit CIP Code or 60 percent similar in core courses), either private or public exist in the state, identify the institution(s) and geographic location(s). Summarize the outcome(s) of communication with such programs with regard to the potential impact on their enrollment and opportunities for possible collaboration (instruction and research). In Appendix C, provide data that support the need for an additional program.


Similarity with Other Programs

<table>
<thead>
<tr>
<th>Institution Name</th>
<th>Public/Private</th>
<th>Location</th>
<th>Program is being Offered</th>
<th>CIP Code</th>
<th>Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida A&amp;M University</td>
<td>Public</td>
<td>Tallahassee</td>
<td>B.S./Supply Chain Management</td>
<td>52.0203</td>
<td></td>
</tr>
<tr>
<td>Florida International University</td>
<td>Public</td>
<td>Miami</td>
<td>BBA/Logistics &amp; Supply Chain Management</td>
<td>52.0203</td>
<td></td>
</tr>
<tr>
<td>University of North Florida</td>
<td>Public</td>
<td>Jacksonville</td>
<td>B.S./Transportation &amp; Logistics</td>
<td>52.0203</td>
<td></td>
</tr>
<tr>
<td>University of West Florida</td>
<td>Public</td>
<td>Pensacola</td>
<td>B.S.BA/Supply Chain Logistics Management</td>
<td>52.0203</td>
<td></td>
</tr>
</tbody>
</table>

Program information:

Florida A&M University introduced a new B.S. in Supply Chain Management in Spring 2018. FAMU is located in Tallahassee. Enrollment data are not yet available.

Florida International University introduced a BBA in Logistics and Supply Chain Management in Fall 2018. Enrollment data are not yet available.

The University of North Florida offers a B.S. in Transportation & Logistics. The oldest supply chain program in Florida (established in 1972), UNF enrolled 175 students in 2017 and produced 34 graduates.

The University of West Florida offers a B.S./B.A. in Supply Chain Logistics Management introduced in 2015. UWF enrolled 81 students in 2017 and produced 6 graduates.

Communication with other institutions: Information about each program, consideration of the potential impact on enrollments, and potential for collaboration were discussed in face-to-face and/or telephone conversations with each of the program directors: FAMU – Dr. Eisenhower Etienne; FIU – Professor Gregory Maloney; UNF – Dr. Robert Frankel; UWF – Dr. Scott Keller. Letters of support from these institutions are provided in Appendix C.

Potential impact on enrollments

All four program directors agree that the USF B.S./SCM will have very little impact on their enrollments. There is very little overlap in the target markets due to geographic differences (i.e., Tallahassee, Miami, and Jacksonville versus central Florida), differences in missions among the universities (e.g., HBCU at FAMU, HSI at FIU), and differences in the focus of the programs (e.g., transportation and logistics versus global supply chain management at USF).

Potential collaboration

The program directors discussed several opportunities for collaboration to support workforce development for the supply chain industry in Florida. The first significant opportunity for collaboration was participation in the inaugural Florida Supply Chain Summit in Orlando in February 2019, hosted by USF (http://floridasupplychainsummit.com). The Summit showcased supply chain programs offered at Florida’s higher education institutions and promoted business engagement. The director of the UNF program was a member of the planning team for the Summit. Faculty from UNF and UWF participated in the program, and students from UNF and UWF attended the Summit to network with industry...
The second key area for collaboration will be the opportunity to share information about best practices as we further develop curricula across the institutions. For example, we can share relevant case studies, video content, information about potential guest speakers, opportunities for collaborative field trips, and participation in study abroad courses related to supply chain management.

Finally, we will be able to collaborate on serving the needs of Florida’s supply chain industry by sharing information about internships and position openings and working together on research projects. For example, three of the four programs have required capstone projects that engage students in field-based research. Collaboration across the programs can extend the reach for potential business engagement in student projects.

Data that support the need for an additional program are provided in Appendix C.

D. Use Table 1 in Appendix A (1-A for undergraduate and 1-B for graduate) to categorize projected student headcount (HC) and Full Time Equivalents (FTE) according to primary sources. Generally undergraduate FTE will be calculated as 30 credit hours per year and graduate FTE will be calculated as 24 credit hours per year. Describe the rationale underlying enrollment projections. If students within the institution are expected to change majors to enroll in the proposed program at its inception, describe the shifts from disciplines that will likely occur.

As displayed in Table 1-A, we project a conservative initial enrollment of 60 students (HC) based on enrollment in the current concentration. Following this start-up period, we anticipate steady growth toward a total enrollment of 150 students (HC) by Year 5. Students who are currently enrolled in the supply chain concentration in the B.S./Marketing in the initial year (2019-2020) are likely to shift to the new degree. The undergraduate supply chain management concentration will be discontinued when the B.S./SCM is introduced.

E. Indicate what steps will be taken to achieve a diverse student body in this program. If the proposed program substantially duplicates a program at FAMU or FIU, provide, (in consultation with the affected university), an analysis of how the program might have an impact upon that university’s ability to attract students of races different from that which is predominant on their campus in the subject program. The university’s Equal Opportunity Officer shall review this section of the proposal and then sign and date Appendix B to indicate that the analysis required by this subsection has been completed.

USF is committed to engaging underrepresented and minority students in our programs. We strongly value equal access to education, ethical development, and all aspects of diversity (cultural, religious, race and ethnicity, socio-economic, linguistic, gender, sexual orientation, etc.). These shared institutional values provide a supportive environment to foster interaction and engagement among students who will shape their organizations’ business interactions and transactions with diverse audiences.

According to a recent (2015) joint report by the U.S. Departments of Education, Transportation and Labor (in conjunction with industry stakeholders), women are highly under-represented in the supply chain industry. Additionally, African-Americans and Hispanics are under-represented in jobs that generally require higher skills, pay better wages, and provide more career ladder opportunities. This situation provides an opportunity for the USF B.S./SCM to have a positive impact on diversity in the industry. We expect the enrollment in the B.S./SCM will mirror the gender/ethnic diversity of the Muma College of Business.
Muma College of Business Fall 2017 Undergraduate Enrollment

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian</td>
<td>11</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>Asian</td>
<td>148</td>
<td>140</td>
<td>288</td>
</tr>
<tr>
<td>Black</td>
<td>216</td>
<td>180</td>
<td>396</td>
</tr>
<tr>
<td>Hispanic</td>
<td>471</td>
<td>427</td>
<td>898</td>
</tr>
<tr>
<td>Native Hawaiian or Other</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Non-Resident Alien</td>
<td>311</td>
<td>229</td>
<td>540</td>
</tr>
<tr>
<td>Not-Reported</td>
<td>81</td>
<td>72</td>
<td>153</td>
</tr>
<tr>
<td>Two or More Race</td>
<td>78</td>
<td>68</td>
<td>146</td>
</tr>
<tr>
<td>White</td>
<td>1,414</td>
<td>880</td>
<td>2,294</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>2,732</strong></td>
<td><strong>2,003</strong></td>
<td><strong>4,735</strong></td>
</tr>
</tbody>
</table>

To ensure the desired outcome for student diversity, recruiting efforts will have a broad statewide reach, extending to geographic regions including those having populations of under-represented prospective students. Prospective students will be identified at key high schools with logistics academies and community colleges with supply chain programs. Outreach approaches will also include collaboration with the USF Office of Veteran Success. Many military veterans have work experience in logistics and are well-equipped to undertake a degree in supply chain management.

Conversations with the directors of the FAMU and FIU programs indicate the new B.S./SCM at USF will have no impact on their ability to attract students from the diversity of races that are predominant on their campuses.

### III. Budget

A. Use Table 2 in Appendix A to display projected costs and associated funding sources for Year 1 and Year 5 of program operation. Use Table 3 in Appendix A to show how existing Education & General funds will be shifted to support the new program in Year 1. In narrative form, summarize the contents of both tables, identifying the source of both current and new resources to be devoted to the proposed program. (Data for Year 1 and Year 5 reflect snapshots in time rather than cumulative costs.)

Tables 2 and 3 are provided in Appendix A. Costs in Years 1 – 5 reflect the reallocation of existing faculty who teach in the current supply chain management concentration to teach in the B.S./SCM program. The budget assumes a 2% increase in salary and fringe benefits across the five-year projection.

No new faculty lines are requested. All faculty are currently employed by USF and are assigned to office space. Office support, office supplies and services, and travel funding are supported by E&G funds allocated to the Department of Marketing. No scholarships or graduate assistants are required to support the program.

B. Please explain whether the university intends to operate the program through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-level tuition. Provide a rationale for doing so and a timeline for seeking Board of Governors’ approval, if appropriate. Please include the expected rate of tuition that the university plans to charge for this program and use this amount when calculating cost.
entries in Table 2.

Not applicable. USF does not intend to offer the program through continuing education or seek approval for market tuition rate.

C. If other programs will be impacted by a reallocation of resources for the proposed program, identify the impacted programs and provide a justification for reallocating resources. Specifically address the potential negative impacts that implementation of the proposed program will have on related undergraduate programs (i.e., shift in faculty effort, reallocation of instructional resources, reduced enrollment rates, greater use of adjunct faculty and teaching assistants). Explain what steps will be taken to mitigate any such impacts. Also, discuss the potential positive impacts that the proposed program might have on related undergraduate programs (i.e., increased undergraduate research opportunities, improved quality of instruction associated with cutting-edge research, improved labs, and library resources).

The faculty who will teach in the B.S./SCM program are members of the Department of Marketing which houses the current undergraduate supply chain management concentration that will be terminated when the B.S./SCM is introduced. As teaching loads shift toward the B.S./SCM, the primary impact of the proposed program will be felt as a slight shift in faculty effort. The B.S./SCM comprises seven courses. Three are currently taught by existing faculty (i.e., Supply Chain Management, Logistics & Physical Distribution Management, and Supply Chain Analytics). The current chair of the Marketing Department is a member of the supply chain faculty. When she returns to the faculty in AY 2019-2020, she will resume a full teaching load. In addition, one instructor in the program will return to a full teaching load in AY 2019-2020, following a two-year assignment as the Director of the Business Honors Program. Together, these shifts away from administrative duties will provide the necessary staffing for the B.S./SCM program with no impact on the Marketing program.

In regard to potential positive impacts associated with the proposed program, the required internship course and field-based capstone course will generate opportunities for undergraduate research.

D. Describe other potential impacts on related programs or departments (e.g., increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the proposed major).

Additional seats will be needed in the business core courses required for all majors. These courses typically enroll nearly 800 students each semester. The projected enrollments for the B.S./SCM would add 30 – 50 students which should be easily accommodated within the current schedule of courses.

E. Describe what steps have been taken to obtain information regarding resources (financial and in-kind) available outside the institution (businesses, industrial organizations, governmental entities, etc.). Describe the external resources that appear to be available to support the proposed program.

Since 2014, five businesses have contributed $207,000 in cash gifts plus $342,760 in-kind gifts (i.e., software licenses) to the Center for Supply Chain Management & Sustainability. Funds are used to support scholarships, business engagement activities, research projects, and faculty development for the USF supply chain management program. As noted elsewhere in this proposal, the supply chain management faculty have been successful in securing external research funding from state and federal granting agencies.
IV. Projected Benefit of the Program to the University, Local Community, and State

Use information from Tables 1 and 2 in Appendix A, and the supporting narrative for “Need and Demand” to prepare a concise statement that describes the projected benefit to the university, local community, and the state if the program is implemented. The projected benefits can be both quantitative and qualitative in nature, but there needs to be a clear distinction made between the two in the narrative.

The projected benefits of the B.S./SCM are summarized as follows:

**University:** The B.S./SCM will benefit the university by positioning USF as the leader in supply chain management education and expertise in the state of Florida. The degree will also position USF as a significant resource for new talent in the supply chain industry, thereby enhancing business engagement by providing stronger relationships with companies in this growing industry sector.

As shown on Table 1A in Appendix A, the B.S./SCM will add up to 150 new students in this STEM discipline.

**Local Community:** The B.S./SCM will benefit the Tampa Bay business community by meeting the need of area businesses for entry-level managers in supply chain management positions. The proposal for the USF B.S./SCM emanated from requests by Tampa Bay business partners who serve on the USF Center for Supply Chain Management & Sustainability’s advisory board. Area companies requested that USF offer a supply chain major to allow greater breadth in the coursework not afforded by the current concentration. They further expressed the need for a program that focuses on global supply chain management.

As shown in Table 1 in Appendix C, Florida expects nearly 12% growth in logistics managers by 2026. The B.S./SCM will provide a talent pipeline for Tampa Bay companies to fill open positions as companies expand their operations.

**State:** The B.S./SCM will benefit the state of Florida by providing skilled employees for entry-level managerial positions that pay well above the average wage in Florida. Candidates for jobs in supply chain management are in increasing demand in Florida. This program will add to the number of STEM graduates to fill those positions.

The projected enrollment level (see Appendix A) will generate 60-70 degrees awarded each year with the potential to make USF the leading producer of SCM graduates in the state of Florida.

V. Access and Articulation – Bachelor’s Degrees Only

A. If the total number of credit hours to earn a degree exceeds 120, provide a justification for an exception to the policy of a 120 maximum and submit a separate request to the Board of Governors for an exception along with notification of the program’s approval. (See criteria in Board of Governors Regulation 6C-8.014)

Not applicable. The B.S./SCM is a 120 credit hour program.

B. List program prerequisites and provide assurance that they are the same as the approved common prerequisites for other such degree programs within the SUS (see link to the Common Prerequisite Manual on the resource page for new program proposal). The courses in the Common Prerequisite Counseling Manual are intended to be those that are required of both native and transfer students prior to entrance to the major program, not simply lower-level courses that are required prior to graduation. The common
prerequisites and substitute courses are mandatory for all institution programs listed, and must be approved by the Articulation Coordinating Committee (ACC). This requirement includes those programs designated as “limited access.”

If the proposed prerequisites are not listed in the Manual, provide a rationale for a request for exception to the policy of common prerequisites. NOTE: Typically, all lower-division courses required for admission into the major will be considered prerequisites. The curriculum can require lower-division courses that are not prerequisites for admission into the major, as long as those courses are built into the curriculum for the upper-level 60 credit hours. If there are already common prerequisites for other degree programs with the same proposed CIP, every effort must be made to utilize the previously approved prerequisites instead of recommending an additional “track” of prerequisites for that CIP. Additional tracks may not be approved by the ACC, thereby holding up the full approval of the degree program. Programs will not be entered into the State University System Inventory until any exceptions to the approved common prerequisites are approved by the ACC.

Following the requirements for Track 3/3, the following prerequisites are mandatory for the B.S./SCM and are consistent with the Common Prerequisites for business degrees in the SUS. Common prerequisites for the B.S./SCM include completion of the following State Mandated Common Course Prerequisites (or equivalents) with a grade of B- or higher in each course:

<table>
<thead>
<tr>
<th>Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021 Principles of Financial Accounting</td>
<td>ACG X021 or ACG X022 or (ACG X001 &amp; ACG X011)</td>
</tr>
<tr>
<td>ACG 2071 Principles of Managerial Accounting</td>
<td>ACG X071 or ACG X301 or ACG X072</td>
</tr>
<tr>
<td>CGS 2100 Computers in Business</td>
<td>CGS X100 or CGS X570 or CGS X531 or BUL X241 or CG SX092 or PHI X600 or BUL X131 or MAN X440 or GEB X350</td>
</tr>
<tr>
<td>ECO 2013 Economic Principles (Macroeconomics)</td>
<td>ECO X013</td>
</tr>
<tr>
<td>ECO 2023 Economic Principles (Microeconomics)</td>
<td>ECO X023</td>
</tr>
<tr>
<td>MAC 2233 Business Calculus</td>
<td>MAC X233 or MAC X230 or MAC X311 or MAC X281</td>
</tr>
<tr>
<td>QMB 2100 Business and Economic Statistics I or STA 2023 Introductory Statistics I</td>
<td>STA X023 or QMB X100 or STA X122 or EGS X025 or ESI X213 or STA X024 or STA X032 or STA X037</td>
</tr>
</tbody>
</table>

Lower Division course requirements for Track 3/3 are displayed on the following page.
FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

NOTE: TRAX010 and TRAX154 are acceptable alternative credit for coursework required for the degree program.

C. If the university intends to seek formal Limited Access status for the proposed program, provide a rationale that includes an analysis of diversity issues with respect to such a designation. Explain how the university will ensure that Florida College System transfer students are not disadvantaged by the Limited Access status. NOTE: The policy and criteria for Limited Access are identified in Board of Governors Regulation 6C-8.013.
Submit the Limited Access Program Request form along with this document.

Not applicable. The program will not be limited access.

D. If the proposed program is an AS-to-B.S. capstone, ensure that it adheres to the guidelines approved by the Articulation Coordinating Committee for such programs, as set forth in Rule 6A-10.024 (see link to the Statewide Articulation Manual on the resource page for new program proposal). List the prerequisites, if any, including the specific AS degrees which may transfer into the program.

Not applicable. The program will not be an AS-to-B.S. capstone.

INSTITUTIONAL READINESS

VI. Related Institutional Mission and Strength

A. Describe how the goals of the proposed program relate to the institutional mission statement as contained in the SUS Strategic Plan and the University Strategic Plan (see link to the SUS Strategic Plan on the resource page for new program proposal).

The B.S./SCM is aligned with the USF System, USF/Tampa, and Muma College of Business (MCOB) strategic plans. All of these plans focus on student success, business engagement, and global literacy.

Specifically, the B.S./SCM promotes student success by equipping students with the knowledge and skills required for careers in high demand in Florida and the nation in the area of global supply chain management. The B.S./SCM supports the institutional mission by ensuring the availability of well-paying jobs in the discipline upon graduation.

As a discipline, the field of supply chain management is highly engaged with industry to ensure the development of a talent pool to support the growing demand for supply chain professionals and to keep abreast of ever-changing technological and regulatory changes. The program supports the institutional mission of business engagement by supporting Florida’s economic development through strengthening the talent pool.

By its very nature, supply chain management is a global discipline. Graduates of the B.S./SCM must understand relationships among suppliers, producers, and customers located around the world. The USF B.S./SCM emphasizes global supply chain management.

B. Describe how the proposed program specifically relates to existing institutional strengths, such as programs of emphasis, other academic programs, and/or institutes and centers.

The Center for Analytics and Creativity (CAC) in the Muma College of Business provides significant resources for the proposed B.S./SCM. Under the auspices of the CAC, all undergraduate students in the MCOB will earn a Data Science Citizen certificate issued by USF and Tableau (data visualization software company). The CAC hosts the annual Florida Business Analytics Forum with guest speakers related to analytics, including supply chain analytics. For example, the 2018 Forum focused on blockchain technology and machine learning, two technology advances at the forefront of shaping supply chain design. As described elsewhere, faculty currently collaborate on supply chain research with the Center for Urban Transportation Research in the USF College of Engineering.

C. Provide a narrative of the planning process leading up to submission of this proposal.
Include a chronology in table format of the activities, listing both university personnel directly involved and external individuals who participated in planning. Provide a timetable of events necessary for the implementation of the proposed program.

The planning process for the B.S./SCM began with a request from executives who are members of the advisory board of the Center for Supply Chain Management & Sustainability. Subsequently, SCM faculty took up the request to consider the resources needed to offer a B.S./SCM. A working group of volunteers drawn from the advisory board then engaged with the SCM faculty to examine similar programs and develop a list of knowledge and skills for the B.S./SCM. This information was then conveyed to the full advisory board for discussion and feedback. The SCM faculty used this feedback to develop curricular goals, learning outcomes, and proposed courses for the B.S./SCM.

The B.S./SCM pre-proposal was reviewed and approved for the USF AY 2018-2019 Accountability Plan. The full proposal was developed for review and approval in AY 2018-2019.

### Planning Process

<table>
<thead>
<tr>
<th>Date</th>
<th>Participants</th>
<th>Planning Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2016</td>
<td>CSCMS Advisory Board</td>
<td>Review of SCM program resulted in request for a B.S. in Supply Chain Management</td>
</tr>
<tr>
<td>June 2016</td>
<td>Donna Davis with SCM faculty: Jim Stock, Dick Plank, Jeannette Mena, Rob Hooker, Kerry Walsh</td>
<td>Discussion of feasibility of B.S./SCM and plan for engaging Advisory Board members; draft curricular goals and learning outcomes</td>
</tr>
<tr>
<td>October 2016</td>
<td>Curriculum Working Group (CSCMS Advisory Board members) with SCM faculty</td>
<td>Discussion of business needs; review of similar programs; focus on global supply chain management; revise curricular goals and learning outcomes</td>
</tr>
<tr>
<td>June 2017</td>
<td>CSCMS Advisory Board with SCM faculty</td>
<td>Presentation of curricular goals and learning outcomes to Advisory Board for discussion and feedback</td>
</tr>
<tr>
<td>September/October 2017</td>
<td>SCM faculty</td>
<td>Develop B.S./SCM pre-proposal</td>
</tr>
<tr>
<td>June 2018</td>
<td>SCM faculty and CSCMS business partners</td>
<td>Review of courses and curriculum map for full proposal</td>
</tr>
</tbody>
</table>

### Events Leading to Implementation

<table>
<thead>
<tr>
<th>Date</th>
<th>Implementation Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2017</td>
<td>Pre-Proposal (PP) approved by Department of Marketing</td>
</tr>
<tr>
<td>December 2017</td>
<td>PP approved by Undergraduate Program Committee/Muma College of Business</td>
</tr>
<tr>
<td>January 2018</td>
<td>PP approved by USF Undergraduate Faculty Council</td>
</tr>
<tr>
<td>January 2018</td>
<td>PP approved by Academic Program Advisory Council</td>
</tr>
<tr>
<td>February 2018</td>
<td>SUS CAVP Academic Program Coordination Workgroup expressed no concerns</td>
</tr>
<tr>
<td>May 2018</td>
<td>PP approved by ACE Committee</td>
</tr>
<tr>
<td>June 2018</td>
<td>PP approved by BOT for inclusion on USF Tampa Accountability Plan</td>
</tr>
<tr>
<td>June 2018</td>
<td>PP approved by BOG for inclusion on USF Tampa Accountability Plan</td>
</tr>
<tr>
<td>September 2018</td>
<td>New Program Full Proposal (NPFP) approved by Department of Marketing</td>
</tr>
<tr>
<td>October 2018</td>
<td>NPFP approved by Undergraduate Program Committee, Muma College of</td>
</tr>
</tbody>
</table>
VII. Program Quality Indicators - Reviews and Accreditation

Identify program reviews, accreditation visits, or internal reviews for any university degree programs related to the proposed program, especially any within the same academic unit. List all recommendations and summarize the institution's progress in implementing the recommendations.

Programs in the home department for this proposal, the Department of Marketing, are reviewed in the accreditation process by AACSB as part of the Muma College of Business accreditation process. The Muma College of Business was successfully reaccredited by AACSB in 2018. The AACSB reaccreditation process takes place every five years. The B.S./SCM will be reviewed in the next reaccreditation cycle, which will begin with an internal program review in 2021-2022 in preparation for a site visit in 2022-2023.

VIII. Curriculum

A. Describe the specific expected student learning outcomes associated with the proposed program. If a bachelor’s degree program, include a web link to the Academic Learning Compact or include the document itself as an appendix.

The B.S./SCM Academic Learning Compact is included in Appendix C. The following Learning Outcomes are consistent with USF System policy and BOG requirements for an undergraduate academic learning compact.

Learning Outcomes

Content/Discipline Knowledge and Skills
Students will demonstrate the ability to:
1. Explain the importance of supply chain management in a global business environment;
2. Describe the dynamics of relationships among firms in a global supply chain, and;
3. Discuss the legal and ethical issues related to global supply chain management.

Critical Thinking Skills
Students will demonstrate the ability to:
1. Conduct analyses used in day-to-day operations of global supply chains including inventory, transportation, warehousing, and network design analyses;
2. Utilize business analytics and data visualization software to conduct SCM analyses, and;
3. Conduct trade-off analyses for the optimization of supply chain operations.

**Communication Skills**
Students will demonstrate the ability to:
1. Effectively present information and analyses in oral presentations and discussions, and;
2. Communicate analyses and recommendations in written form.

**B. Describe the admission standards and graduation requirements for the program.**

**Admission standards:**

Students applying to the University of South Florida are expected to meet the University’s admissions standards, as listed on USF’s Office of Admissions’ website (https://www.usf.edu/admissions/).

To matriculate to the upper-division courses required for the B.S./SCM, students must earn a minimum grade of B- in the following courses:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- CGS 2100 Computers in Business
- ECO 2013 Economic Principles: Macroeconomics
- ECO 2023 Economic Principles: Microeconomics
- MAC 2233 Business Calculus
- QMB 2100 Business & Economic Statistics I

**Graduation requirements:**

For graduation, students must satisfy the curriculum (course) requirements from their catalog year while maintaining GPA and grading requirements as set forth in USF System Regulation 3.007 (http://ugs.usf.edu/pdf/ugc/3%20007-BA_DEGREE.pdf).

**C. Describe the curricular framework for the proposed program, including number of credit hours and composition of required core courses, restricted electives, unrestricted electives, thesis requirements, and dissertation requirements. Identify the total numbers of semester credit hours for the degree.**

The 120 credit hour B.S./SCM is comprised of the following components. There are no thesis requirements.

<table>
<thead>
<tr>
<th>Component</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>36</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>18</td>
</tr>
<tr>
<td>Business Core Courses</td>
<td>39</td>
</tr>
<tr>
<td>Supply Chain Management major</td>
<td>21 credit hours *</td>
</tr>
<tr>
<td>Unrestricted Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 credit hours</strong></td>
</tr>
</tbody>
</table>

* All courses in the Supply Chain Management major are 3 credit hours.

- SCM 3005 Supply Chain Management (Global Citizen Program certified)
- SCM 3570 Global Sourcing (newly proposed)
- SCM 4210 Logistics & Physical Distribution Management
- SCM 4202 Supply Chain Analytics (newly proposed)
- SCM 4721 Global Commerce (newly proposed)
- SCM 4940 Supply Chain Internship (newly proposed)
- SCM 4890 Supply Chain Capstone Project (newly proposed)

D. Provide a sequenced course of study for all majors, concentrations, or areas of emphasis within the proposed program.

**SUPPLY CHAIN MANAGEMENT 4-SEMESTER PLAN FOR TRANSFER STUDENTS**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit Hours</th>
<th>Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3250 Professional Writing or ENC 3310 Expository Writing</td>
<td>3</td>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>SCM 3005 Supply Chain Management</td>
<td>3</td>
<td>FIN 3403 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011 Information Systems in Organizations</td>
<td>3</td>
<td>SCM 3570 Global Sourcing</td>
<td>3</td>
</tr>
<tr>
<td>QMB 3200 Business &amp; Economic Statistics II</td>
<td>3</td>
<td>SCM 4210 Logistics &amp; Physical Distribution Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>MAN 4504 Operations &amp; Supply Chain Management</td>
<td>3</td>
<td>GEB 3033 Business Workplace Skills &amp; Best Practices</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCM 4940 Supply Chain Internship</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Credit Hours</th>
<th>Semester 4</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 3320 Law &amp; Business I</td>
<td>3</td>
<td>GEB 4890 Strategic Management &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4202 Supply Chain Analytics</td>
<td>3</td>
<td>SCM 4890 Supply Chain Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4721 Global Commerce</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
# SUPPLY CHAIN MANAGEMENT 8-SEMESTER PLAN

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit Hours</th>
<th>Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233 Business Calculus</td>
<td>3</td>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2100 Computers in Business</td>
<td>3</td>
<td>Gen Ed\State GE Core Humanities</td>
<td>3</td>
</tr>
<tr>
<td>SPC 2608 Public Speaking</td>
<td>3</td>
<td>Gen Ed\State GE Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>SLS 2901 Academic Foundations Seminar</td>
<td>3</td>
<td>ECO 2013 Economic Principles (Macro)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>QMB 3200 Business &amp; Economic Statistics II</td>
</tr>
<tr>
<td>MAN 4504 Operations &amp; Supply Chain Management</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Credit Hours</th>
<th>Semester 6</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3250 Professional Writing or ENC 3310 Expository Writing</td>
<td>3</td>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>SCM 3005 Supply Chain Management</td>
<td>3</td>
<td>FIN 3403 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011 Information Systems in Organizations</td>
<td>3</td>
<td>SCM 3570 Global Sourcing</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective</td>
<td>3</td>
<td>SCM 4210 Logistics &amp; Physical Distribution Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 4940 Supply Chain Internship</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Credit Hours</th>
<th>Semester 8</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 3320 Law &amp; Business I</td>
<td>3</td>
<td>GEB 4890 Strategic Management &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4202 Supply Chain Analytics</td>
<td>3</td>
<td>SCM 4890 Supply Chain Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4721 Global Commerce</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective</td>
<td>3</td>
<td>Unrestricted Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
E. Provide a one- or two-sentence description of each required or elective course.

SCM 3005 Supply Chain Management (3 credit hours) Supply chain management is the study of the end-to-end coordination of physical, information, and financial flows across globally dispersed companies from raw material inputs to delivery of products and services to customers and end consumers.

SCM 3570 Global Sourcing (3 credit hours) This course is a study of global sourcing in supply chain management including analysis of the sourcing environment as well as components of the international distribution system. The emphasis is on information flows and the application of quantitative techniques used to establish and control strategic sourcing.

SCM 4210 Logistics & Physical Distribution Management (3 credit hours) A study of supply chain management methods focused on delivering optimal customer service levels through the efficient and effective management of inventory, transportation, material handling, information, and facilities.

SCM 4202 Supply Chain Analytics (3 credit hours) This course introduces students to software tools and decision support models that are frequently used in the design and operation of integrated global supply chains.

SCM 4721 Global Commerce (3 credit hours) This course provides a comprehensive overview of the fundamentals of global commerce including the logistics of importing and exporting. The course focuses on the impact of global logistics on world trade.

SCM 4940 Supply Chain Internship (3 credit hours) This course consists of two components – an academic component that focuses on professional development skills and an on-site experiential learning component comprised of a minimum of 120 hours in an on-site experience.

SCM 4890 Supply Chain Capstone Project (3 credit hours) This course integrates supply chain management knowledge and applies it to decision making across major functional roles within firms in managing global supply chains.

F. For degree programs in the science and technology disciplines, discuss how industry-driven competencies were identified and incorporated into the curriculum and indicate whether any industry advisory council exists to provide input for curriculum development and student assessment.

As noted previously, the curriculum for this program was developed with the guidance of the advisory board of senior supply chain managers for the Center for Supply Chain Management & Sustainability (CSCMS). A working group of volunteers drawn from the advisory board (Curriculum Working Group) developed a list of knowledge and skills that were then mapped into the courses. Technical skills -- including introduction to software applications and analytical skills -- play a critical role in global supply chain management. In addition, the Curriculum Working Group as well as the full advisory board emphasized the need for development of communication, critical thinking, and leadership skills.

The business partners that comprise the advisory board of the CSCMS meet annually. This group will continue to provide guidance and oversight of the overall quality and relevance of the B.S./SCM program. Feedback about student performance will be solicited from employers in the internship and field-based supply chain capstone courses. The capstone course will serve to collect data for the Assurance of Learning for the B.S./SCM program.
G. For all programs, list the specialized accreditation agencies and learned societies that would be concerned with the proposed program. Will the university seek accreditation for the program if it is available? If not, why? Provide a brief timeline for seeking accreditation, if appropriate.

The Muma College of Business was successfully reaccredited by AACSB in 2018. The AACSB reaccreditation process takes place every five years. The B.S./SCM will be reviewed in the next reaccreditation cycle which will begin with an internal program review in 2021-2022 in preparation for a site visit in 2022-2023.

H. For doctoral programs, list the accreditation agencies and learned societies that would be concerned with corresponding bachelor’s or master’s programs associated with the proposed program. Are the programs accredited? If not, why?

Not applicable. This is not a doctoral program.

I. Briefly describe the anticipated delivery system for the proposed program (e.g., traditional delivery on main campus; traditional delivery at branch campuses or centers; or nontraditional delivery such as distance or distributed learning, self-paced instruction, or external degree programs). If the proposed delivery system will require specialized services or greater than normal financial support, include projected costs in Table 2 in Appendix A. Provide a narrative describing the feasibility of delivering the proposed program through collaboration with other universities, both public and private. Cite specific queries made of other institutions with respect to shared courses, distance/distributed learning technologies, and joint-use facilities for research or internships.

The courses in the B.S./SCM will be delivered in face-to-face courses on the USF campuses. No special facilities or extraordinary financial support are required for the degree.

IX. Faculty Participation

A. Use Table 4 in Appendix A to identify existing and anticipated full-time (not visiting or adjunct) faculty who will participate in the proposed program through Year 5. Include (a) faculty code associated with the source of funding for the position; (b) name; (c) highest degree held; (d) academic discipline or specialization; (e) contract status (tenure, tenure-earning, or multi-year annual [MYA]); (f) contract length in months; and (g) percent of annual effort that will be directed toward the proposed program (instruction, advising, supervising internships and practica, and supervising thesis or dissertation hours).

Table 4 displays the faculty who will deliver the courses in the B.S./SCM. All faculty are currently employed by USF.

Dr. Donna Davis, Professor, Marketing & Supply Chain Management  
Dr. Rob Hooker, Associate Professor, Marketing & Supply Chain Management  
Ms. Kerry Walsh, Instructor, Marketing & Supply Chain Management  
Dr. Seckin Ozkul, Instructor, Supply Chain Management

B. Use Table 2 in Appendix A to display the costs and associated funding resources for existing and anticipated full-time faculty (as identified in Table 4 in Appendix A). Costs for visiting and adjunct faculty should be included in the category of Other Personnel Services (OPS). Provide a narrative summarizing projected costs and funding sources.
The costs associated with the B.S./SCM program are exclusively related to the faculty effort devoted to teaching the courses in the program. These faculty members are currently teaching the courses in the 12-hour supply chain management concentration along with various required and elective courses in the marketing program. Their salaries are completely funded by E&G funds. The budget assumes a 2% increase in salary and fringe benefits across the five-year projection.

C. Provide in the appendices the abbreviated curriculum vitae (CV) for each existing faculty member (do not include information for visiting or adjunct faculty).

See Appendix D for the faculty CV’s.

D. Provide evidence that the academic unit(s) associated with this new degree have been productive in teaching, research, and service. Such evidence may include trends over time for average course load, FTE productivity, student HC in major or service courses, degrees granted, external funding attracted, as well as qualitative indicators of excellence.

The B.S./SCM will be housed in the Department of Marketing in the Muma College of Business. Currently, the 12-hour supply chain management concentration is an option for marketing majors. Faculty associated with the new degree are members of the Department of Marketing where they teach courses in the supply chain concentration and the marketing major. The following statistics are for the Department of Marketing:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average course load</td>
<td>4.2</td>
<td>4.2</td>
<td>3.9</td>
<td>3.9</td>
</tr>
<tr>
<td>HC enrollment</td>
<td>549</td>
<td>571</td>
<td>559</td>
<td>593</td>
</tr>
<tr>
<td>Number of degrees awarded</td>
<td>261</td>
<td>278</td>
<td>257</td>
<td>265</td>
</tr>
<tr>
<td>Scholarly publications</td>
<td>19</td>
<td>25</td>
<td>20</td>
<td>26</td>
</tr>
<tr>
<td>External grants</td>
<td>$518,118</td>
<td>$437,244</td>
<td>$1,008,143</td>
<td>$642,377</td>
</tr>
</tbody>
</table>

The faculty who currently teach the supply chain management courses are heavily involved in service at all levels. All are active members of the Council for Supply Chain Management Professionals (CSCMP), the global association for supply chain managers and educators. While he teaches courses only at the graduate level, Dr. James Stock is a founding faculty member in USF’s supply chain program. Dr. Stock is a Distinguished University Professor, Fulbright Core Scholar, and member of the American Association for the Advancement of Science. Dr. Donna Davis is a member of the Muma College of Business leadership team in her role as chair of the Department of Marketing. Dr. Rob Hooker is a Fulbright Specialist in the area of supply chain management. Dr. Seckin Ozkul serves on multiple committees for the Transportation Research Board. Kerry Walsh has served as faculty advisor of the CSCMP Student Roundtable at USF since its inception in 2014.

X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university’s students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Part I - Overview of USF Libraries, Mission, and Program/Discipline Strengths

The University of South Florida’s Libraries consist of USF’s main research library, located on the Tampa
Campus and the Hinks and Elaine Shimberg Health Sciences Library, the Nelson Poynter Memorial Library, USF St. Petersburg campus; and the Jane Bancroft Cook Library, which is a joint-use facility shared with New College of Florida and the USF Sarasota-Manatee campus.

The USF Libraries serve as the nexus for the teaching, learning, and research for the faculty and students at the University of South Florida. Together, the USF Libraries provide access to more than 2 million volumes and an extensive collection of electronic resources including over 58,975 e-journal subscriptions and 927 aggregator databases, 580,000 e-books, and 826,000 digital images. In addition, students have access to over 60,000 audio/visual materials including videos, CDs, and DVDs.

In addition to extensive electronic and print resources, the USF Tampa Library offer unique access to primary research materials through Special & Digital Collections. Specializations include: Florida Studies Center Collection, the Children and Young Adult Literature Collection, the Science Fiction & Fantasy Collection, the Holocaust and Genocide Studies Center Collection, the Arts Collection, the Literature & Book Arts Collection, the University Archives, and Digital Collections, which provide online access to many materials from Special Collections, as well as collections digitized through partnerships with other libraries and repositories.

The library endeavors to develop and maintain a collection that will satisfy the needs for resources that support the undergraduate and graduate curriculum for the Supply Chain Management program in the Muma College of Business Marketing Department as well as serve the more specialized demands from graduate students and faculty for more advanced research materials.

Part II - USF Libraries’ Collections
MONOGRAPHS (Print and Ebooks)

The numbers of both print and electronic monographs below were derived from searching the library’s catalog for book titles by Library of Congress Subject Headings relevant to the Supply Chain Management program.

<table>
<thead>
<tr>
<th>Library of Congress Subject Heading</th>
<th>Call Number</th>
<th>Print</th>
<th>Electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Logistics</td>
<td>HD38.5</td>
<td>115</td>
<td>376</td>
</tr>
<tr>
<td>Inventory Control</td>
<td>TS160-TS163</td>
<td>67</td>
<td>70</td>
</tr>
<tr>
<td>Industrial Management</td>
<td>HD28-HD70</td>
<td>9861</td>
<td>8093</td>
</tr>
<tr>
<td>Industrial Procurement</td>
<td>HD39.5</td>
<td>42</td>
<td>49</td>
</tr>
<tr>
<td>Management Science</td>
<td>T55.4-T57.97</td>
<td>793</td>
<td>761</td>
</tr>
<tr>
<td>Marketing Management</td>
<td>HF5415.13</td>
<td>1233</td>
<td>283</td>
</tr>
<tr>
<td>Marketing Channels</td>
<td>HF5415.129</td>
<td>23</td>
<td>5</td>
</tr>
<tr>
<td>Materials Management</td>
<td>TS161</td>
<td>28</td>
<td>32</td>
</tr>
<tr>
<td>Operations Research</td>
<td>T57.6-T57.97</td>
<td>498</td>
<td>451</td>
</tr>
<tr>
<td>Physical Distribution of Goods</td>
<td>HF5415.6</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Shipment of Goods</td>
<td>HF5761-HF5780</td>
<td>33</td>
<td>11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12,699</strong></td>
<td><strong>10,136</strong></td>
<td></td>
</tr>
</tbody>
</table>

Additional ebooks without Library of Congress Subject Headings
- 1,825 (Book titles with “Supply Chain Management” in the title, abstract, or author fields)
  - 357 (Ebook titles containing “Supply Chain Management”)

Total Number of Monographs
- Print = 12,699
- Electronic = 11,961
B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

No additional resources will be required. The current library resources are sufficient for the program.

C. Describe classroom, teaching laboratory, research laboratory, office, and other types of space that are necessary and currently available to implement the proposed program through Year 5.

Classroom space and office space are the only resources needed for the program. The B.S./SCM will add up to three classes each semester that will need to be assigned classroom space. We will be able to accommodate these courses within current space allocations. All faculty are in currently assigned office space; hence, no new office space is needed.

D. Describe additional classroom, teaching laboratory, research laboratory, office, and other space needed to implement and/or maintain the proposed program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space in Table 2 in Appendix A. Do not include costs for new construction because that information should be provided in response to X (E) below.

No additional classroom or office space is required. Existing classroom and office space is sufficient.

E. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university's fixed capital outlay priority list. Table 2 in Appendix A includes only Instruction and Research (I&R) costs. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase as a result of the program, describe and estimate those expenses in narrative form below. It is expected that high enrollment programs in particular would necessitate increased costs in non-I&R activities.

No capital expenditure for instructional or research space is required.

F. Describe specialized equipment that is currently available to implement the proposed program through Year 5. Focus primarily on instructional and research requirements.

No specialized equipment is required to implement or sustain the program.

G. Describe additional specialized equipment that will be needed to implement and/or sustain the proposed program through Year 5. Include projected costs of additional equipment in Table 2 in Appendix A.

No specialized equipment is required to implement or sustain the program.

H. Describe any additional special categories of resources needed to implement the program through Year 5 (access to proprietary research facilities, specialized services, extended travel, etc.). Include projected costs of special resources in Table 2 in Appendix A.

No additional special categories of resources are needed to implement the program.
I. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5. Include the projected costs in Table 2 in Appendix A.

No fellowship, scholarships, or graduate assistantships will be allocated to the program.

J. Describe currently available sites for internship and practicum experiences, if appropriate to the program. Describe plans to seek additional sites in Years 1 through 5.

Internships are currently offered at multiple locations in the Greater Tampa Bay region. Students who complete the supply chain management concentration are required to complete a minimum of one internship; many complete multiple internships. Companies that have hired USF interns with the supply chain management concentration include:

<table>
<thead>
<tr>
<th>Amazon</th>
<th>Deloitte</th>
<th>Masonite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashley Furniture</td>
<td>Honeywell Aerospace</td>
<td>Mosaic</td>
</tr>
<tr>
<td>Bloomin’ Brands, Inc.</td>
<td>Hybrid Logistics</td>
<td>Patterson Companies</td>
</tr>
<tr>
<td>Blue Grace Logistics</td>
<td>Jabil</td>
<td>Ravago Americas</td>
</tr>
<tr>
<td>Bristol-Myers Squibb</td>
<td>Johnson &amp; Johnson</td>
<td>Reed TMS</td>
</tr>
<tr>
<td>C.H.Robinson</td>
<td>Keuhne + Nagel</td>
<td>Saddle Creek Logistics</td>
</tr>
<tr>
<td>ChopTank</td>
<td>Knight Refrigerated</td>
<td>Target</td>
</tr>
<tr>
<td>Datex International</td>
<td>Marten Transport</td>
<td>Tech Data</td>
</tr>
</tbody>
</table>

These companies will continue to provide internship opportunities when the B.S./SCM program is launched and the concentration is discontinued. We continue to add new internships by expanding the number of internships with existing companies and adding new companies to the list as the word spreads about the USF supply chain management program.
APPENDIX A

TABLE 1-A
PROJECTED HEADCOUNT FROM POTENTIAL SOURCES
(Baccalaureate Degree Program)

<table>
<thead>
<tr>
<th>Source of Students</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Non-duplicated headcount in any given year)*</td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
</tr>
<tr>
<td>Upper-level students who are transferring from other majors within the university**</td>
<td>20</td>
<td>20</td>
<td>10</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Students who initially entered the university as FTIC students and who are progressing from the lower to the upper level***</td>
<td>25</td>
<td>25</td>
<td>45</td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>Florida College System transfers to the upper level***</td>
<td>10</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>Transfers to the upper level from other Florida colleges and universities***</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Transfers from out of state colleges and universities***</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Other (Explain)***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Totals</td>
<td>60</td>
<td>60</td>
<td>80</td>
<td>80</td>
<td>100</td>
</tr>
</tbody>
</table>

* List projected annual headcount of students enrolled in the degree program. List projected yearly cumulative ENROLLMENTS instead of admissions.

** If numbers appear in this category, they should go DOWN in later years.
*** Do not include individuals counted in any PRIOR CATEGORY in a given COLUMN.
## APPENDIX A
### TABLE 2
**PROJECTED COSTS AND FUNDING SOURCES**

<table>
<thead>
<tr>
<th>Instruction &amp; Research Costs (non-cumulative)</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Funding Source</td>
<td>Funding Source</td>
</tr>
<tr>
<td></td>
<td>Reallocated Base* (E&amp;G)</td>
<td>Continuing Base** (E&amp;G)</td>
</tr>
<tr>
<td></td>
<td>Enrollment Growth (E&amp;G)</td>
<td>New Recurring (E&amp;G)</td>
</tr>
<tr>
<td>Faculty Salaries and Benefits</td>
<td>389,673</td>
<td>0</td>
</tr>
<tr>
<td>A &amp; P Salaries and Benefits</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>USPS Salaries and Benefits</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Personal Services</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistantships &amp; Fellowships</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Library</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Expenses</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Operating Capital Outlay</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Special Categories</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Costs</strong></td>
<td>$389,673</td>
<td>$0</td>
</tr>
</tbody>
</table>

*Identify reallocation sources in Table 3.
**Includes recurring E&G funded costs ("reallocated base," "enrollment growth," and "new recurring") from Years 1-4 that continue into Year 5.
***Identify if non-recurring.

**Faculty and Staff Summary**

<table>
<thead>
<tr>
<th>Total Positions</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty (person-years)</td>
<td>1.88</td>
<td>1.88</td>
</tr>
<tr>
<td>A &amp; P (FTE)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>USPS (FTE)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Calculated Cost per Student FTE**

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total E&amp;G Funding</td>
<td>$389,673</td>
<td>$421,795</td>
</tr>
<tr>
<td>Annual Student FTE</td>
<td>60</td>
<td>150</td>
</tr>
<tr>
<td>E&amp;G Cost per FTE</td>
<td>$6,495</td>
<td>$2,812</td>
</tr>
</tbody>
</table>

*Worksheet Table 2 Budget*
APPENDIX A

TABLE 3
ANTICIPATED REALLOCATION OF EDUCATION & GENERAL FUNDS*

<table>
<thead>
<tr>
<th>Program and/or E&amp;G account from which current funds will be reallocated during Year 1</th>
<th>Base before reallocation</th>
<th>Amount to be reallocated</th>
<th>Base after reallocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing - Supply Chain concentration</td>
<td>389,673</td>
<td>389,673</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$389,673</td>
<td>$389,673</td>
<td>$0</td>
</tr>
</tbody>
</table>

* If not reallocating funds, please submit a zeroed Table 3

Worksheet Table 3 Reallocation
## APPENDIX A

### TABLE 4

**ANTICIPATED FACULTY PARTICIPATION**

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Faculty Name or &quot;New Hire&quot;</th>
<th>Highest Degree Held</th>
<th>Academic Discipline or Specialty</th>
<th>Rank</th>
<th>Contract Status</th>
<th>Initial Date for Participation in Program</th>
<th>Mos. Contract Year 1</th>
<th>FTE Year 1</th>
<th>% Effort for Eng. Year 1</th>
<th>FY Year 1</th>
<th>Mos. Contract Year 5</th>
<th>FTE Year 5</th>
<th>% Effort for Eng. Year 5</th>
<th>FY Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Donna Davis, Ph.D.</td>
<td>Supply Chain Management</td>
<td></td>
<td>Professor</td>
<td>Tenure</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.50</td>
<td>0.38</td>
<td>9</td>
<td>0.75</td>
<td>0.50</td>
<td>0.38</td>
</tr>
<tr>
<td>A</td>
<td>Rob Hooker, Ph.D.</td>
<td>Supply Chain Management</td>
<td></td>
<td>Assoc. Prof.</td>
<td>Tenure</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.75</td>
<td>0.56</td>
<td>9</td>
<td>0.75</td>
<td>0.75</td>
<td>0.56</td>
</tr>
<tr>
<td>A</td>
<td>Seckin Ozkul, Ph.D.</td>
<td>Transportation Management</td>
<td></td>
<td>Instructor I</td>
<td>MYA</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
</tr>
<tr>
<td>A</td>
<td>Kerry Walsh, M.S.</td>
<td>Supply Chain Management</td>
<td></td>
<td>Instructor I</td>
<td>MYA</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>1.00</td>
<td>0.75</td>
<td>9</td>
<td>0.75</td>
<td>1.00</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Person-Years (FY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Person-Years (FY)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>1.88</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1.88</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Source of Funding</th>
<th>PY Workload by Budget Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Current Education &amp; General Revenue</td>
<td>Year 1 1.88</td>
</tr>
<tr>
<td>B</td>
<td>Current Education &amp; General Revenue</td>
<td>Year 1 0.00</td>
</tr>
<tr>
<td>C</td>
<td>New Education &amp; General Revenue</td>
<td>Year 1 0.00</td>
</tr>
<tr>
<td>D</td>
<td>Contracts/Grants</td>
<td>Year 1 0.00</td>
</tr>
<tr>
<td>E</td>
<td>Contracts/Grants</td>
<td>Year 1 0.00</td>
</tr>
</tbody>
</table>

**Overall Totals for Year 1:** **1.88**

**Overall Totals for Year 5:** **1.88**

Worksheet Table 4 Faculty
APPENDIX B

Please include the signature of the Equal Opportunity Officer and the Library Director.

[Signature of Equal Opportunity Officer]  [Date]  1/29/2019

[Signature of Library Director]  [Date]  11/20/18

This appendix was created to facilitate the collection of signatures in support of the proposal. Signatures in this section illustrate that the Equal Opportunity Officer has reviewed section II.F of the proposal and the Library Director has reviewed sections X.A and X.B.
APPENDIX C

• Academic Learning Compact
• B.S./SCM 8-Semester Plan
• B.S./SCM 4-Semester Plan for Transfer Students
• Data related to the need for another degree program in the state
• Letters of support
ACADEMIC LEARNING COMPACT
Supply Chain Management, Undergraduate, B.S.
Mission Statement

The University of South Florida Muma College of Business emphasizes creativity and analytics to promote student success, produce scholarship with impact, and engage with all stakeholders in a diverse global environment. The Supply Chain Management major prepares students for initial entry-level positions in supply chain management. The curriculum focuses on knowledge and skill development related to the management of global supply chains. In addition, the curriculum provides for the development of skills in critical thinking, quantitative analysis, oral communication, and written communication.

Goal 1: Discipline Specific Knowledge and Skills

1a. Student Learning Outcome Statement
Students will demonstrate the ability to explain the importance of supply chain management in a global business environment.

1b. Method of Assessment
Faculty in the capstone course SCM 4890 Supply Chain Capstone Project will use a rubric to grade an individual case study completed by every student. The rubric is scaled from 1 - 4 (1=unacceptable, 2=needs improvement, 3=Good, 4=excellent) across three dimensions, one of which is the ability to explain the importance of supply chain management in a global business environment. The other two dimensions are used to assess other learning outcomes. The rubric was developed internally by supply chain faculty. In order to calibrate ratings, a group of faculty met to score artifacts of student work and discuss what denoted one rating from another. Two instructors will use the rubric to evaluate each case; differences will be resolved in a discussion between the instructors.

1c. Performance Targets
At least 90% of students will score 3 (Good) or higher; at least 45% will score 4 (Excellent).

2a. Student Learning Outcome Statement
Students will demonstrate the ability to describe the dynamics of relationships among firms in a global supply chain.

2b. Method of Assessment
Faculty in the capstone course SCM 4890 Supply Chain Capstone Project will use a rubric to grade an individual case study completed by every student. The rubric is scaled from 1 - 4 (1=unacceptable, 2=needs improvement, 3=Good, 4=excellent) across three dimensions, one of which is the ability to describe the dynamics of relationships among firms in a global supply chain. The other two dimensions are used to assess other learning outcomes. The rubric was developed internally by supply chain faculty. In order to calibrate ratings, a group of faculty met to score artifacts of student work and discuss what denoted one rating from another. Two instructors will use the rubric to evaluate each case; differences will be resolved in a discussion between the instructors.
2c. Performance Targets
At least 90% of students will score 3 (Good) or higher; at least 45% will score 4 (Excellent).

3a. Student Learning Outcome Statement
Students will demonstrate the ability to discuss the legal and ethical issues related to global supply chain management.

3b. Method of Assessment
Faculty in the capstone course SCM 4890 Supply Chain Capstone Project will use a rubric to grade an individual case study completed by every student. The rubric is scaled from 1 - 4 (1=unacceptable, 2=needs improvement, 3=Good, 4=excellent) across three dimensions, one of which is the ability to discuss the legal and ethical issues related to global supply chain management. The other two dimensions are used to assess other learning outcomes. The rubric was developed internally by supply chain faculty. In order to calibrate ratings, a group of faculty met to score artifacts of student work and discuss what denoted one rating from another. Two instructors will use the rubric to evaluate each case; differences will be resolved in a discussion between the instructors.

3c. Performance Targets
At least 90% of students will score 3 (Good) or higher; at least 45% will score 4 (Excellent).

Goal 2: Critical Thinking Skills

1a. Student Learning Outcome Statement
Students will demonstrate the ability to conduct analyses used in day-to-day operations of global supply chains including inventory, transportation, warehousing, and network design analyses.

1b. Method of Assessment
Faculty in SCM 4202 Supply Chain Analytics will assess individual in-class assignments. The assignments will be four problems that evaluate the student’s ability to conduct analyses across four areas: inventory, transportation, warehousing, and network design.

1c. Performance Targets
At least 80% of students will score 70% or higher on each of the four areas; at least 50% will score 80% or higher on each area.

2a. Student Learning Outcome Statement
Students will demonstrate the ability to utilize business analytics and data visualization software to conduct SCM analyses.

2b. Method of Assessment
Faculty in SCM 4202 Supply Chain Analytics will assess four individual in-class assignments. The assignments will be four problems that require the use of advanced Excel tools (e.g., Solver, V-Lookup, Macros) and data visualization software (e.g., Tableau).
2c. Performance Targets
At least 90% of students will score 80% or higher on the use of advanced Excel tools; at least 60% will score 80% or higher on the use of Tableau.

3a. Student Learning Outcome Statement
Students will demonstrate the ability to conduct trade-off analyses for the optimization of supply chain operations.

3b. Method of Assessment
Faculty in SCM 4202 Supply Chain Analytics will assess four individual in-class assignments. The assignments will be four problems that require trade-off analyses. Scores across all four assignments will be averaged.

3c. Performance Targets
At least 90% of students will score 70% or higher across all four assignments; at least 45% will score 80% or higher across all four assignments.

Goal 3: Communication Skills

1a. Student Learning Outcome Statement
Students will demonstrate the ability to effectively present information and analyses in oral presentations and discussions.

1b. Method of Assessment
Faculty in the capstone course SCM 4890 Supply Chain Capstone Project will use a rubric to evaluate a video of a presentation completed by every student. The rubric is scaled from 1 - 4 (1=unacceptable, 2=needs improvement, 3=Good, 4=excellent) across four dimensions: organization, visual aids, topic knowledge, stage presence). The rubric was developed internally by supply chain faculty. In order to calibrate ratings, a group of faculty met to score artifacts of student work and discuss what denoted one rating from another. Two instructors will grade each video; ratings will be averaged to calculate a final score for each student.

1c. Performance Targets
At least 90% of students will score 3 (Good) or higher; 45% will score 4 (Excellent).

2a. Student Learning Outcome Statement
Students will demonstrate the ability to communicate analyses and recommendations in written form.

2b. Method of Assessment
Faculty in the capstone course SCM 4890 Supply Chain Capstone Project will use a rubric to evaluate a common individual case completed by every student. The rubric is scaled from 1 - 4 (1=unacceptable, 2=needs improvement, 3=Good, 4=excellent) across four dimensions: organization, effectiveness, justification of recommendations, professional writing. The rubric was developed internally by supply chain faculty. In order to calibrate ratings, a group of faculty met to score artifacts of student work and discuss what denoted one rating from another. Two instructors will grade each video; ratings will be averaged to calculate a final score for each student.
another. Two instructors will grade each case; ratings will be averaged to calculate a final score for each student.

2c. Performance Targets
At least 90% of students will score 3 (Good) or higher; 45% will score 4 (Excellent).
### Curriculum Map

<table>
<thead>
<tr>
<th>Discipline Specific Knowledge and Skills</th>
<th>SCM 3005 Supply Chain Management</th>
<th>SCM 3570 Global Sourcing</th>
<th>SCM 4210 Logistics &amp; Physical Distribution</th>
<th>SCM 4202 Supply Chain Analytics</th>
<th>SCM 4723 Global Commerce</th>
<th>SCM 4940 Supply Chain Internship</th>
<th>SCM 4890 Supply Chain Capstone Project</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LO1</strong> Students will demonstrate the ability to explain the importance of supply chain management in a global business environment.</td>
<td>I</td>
<td>R</td>
<td>M</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td><strong>LO2</strong> Students will demonstrate the ability to describe the dynamics of relationships among firms in a global supply chain</td>
<td>I</td>
<td>R</td>
<td>R</td>
<td>M</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td><strong>LO3</strong> Students will demonstrate the ability to discuss the legal and ethical issues related to global supply chain management</td>
<td>I</td>
<td>R</td>
<td>R</td>
<td>M</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

### Critical Thinking

| LO1 Students will demonstrate the ability to conduct analyses used in day-to-day operations of global supply chains including inventory, transportation, warehousing, and network design analyses. | I                                | R                        | M                                        | A                              | R                         |                       |                       |
| LO2 Students will demonstrate the ability to utilize business analytics and data visualization software to conduct SCM analyses. | I                                | R                        | M                                        | A                              | R                         |                       |                       |
| LO3 Students will demonstrate the ability to conduct trade-off analyses for the optimization of supply chain operations. | I                                | R                        | M                                        | A                              | R                         |                       |                       |

### Communication Skills

| LO1 Students will demonstrate the ability to effectively present information and analyses in oral presentations and discussions. | I                                | R                        | M                                        | R                              | A                         |                       |                       |
| LO2 Students will demonstrate the ability to communicate analyses and recommendations in written form. | I                                | R                        | M                                        | R                              | A                         |                       |                       |
# SUPPLY CHAIN MANAGEMENT 8-SEMESTER PLAN *

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit Hours</th>
<th>Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233 or MAC 2241 or MAC 2281 or MAC 2311</td>
<td>3</td>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2100 Computers in Business</td>
<td>3</td>
<td>Gen Ed\State GE Core Humanities</td>
<td>3</td>
</tr>
<tr>
<td>SPC 2608 Public Speaking</td>
<td>3</td>
<td>Gen Ed\State GE Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>SLS 2901 or Nonbusiness Elective</td>
<td>3</td>
<td>ECO 2013 Economic Principles (Macro)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Summer Opportunities**

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Credit Hours</th>
<th>Semester 4</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2023 Economic Principles</td>
<td>3</td>
<td>ACG 2071 Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>MAR 3023 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SCOV Civics Literacy</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>GEB 3033 Business Workplace Skills &amp; Best Practices</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Credit Hours</th>
<th>Semester 6</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3250 or ENC 3301</td>
<td>3</td>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>SCM 3005 Supply Chain Management</td>
<td>3</td>
<td>FIN 3403 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011 Information Systems in Organizations</td>
<td>3</td>
<td>SCM 3570 Global Sourcing</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>SCM 4210 Logistics &amp; Physical Distribution Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Credit Hours</th>
<th>Semester 8</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 3320 Law &amp; Business \Human &amp; Cultural Diff</td>
<td>3</td>
<td>GEB 4890 Strategic Management &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4202 Supply Chain Analytics</td>
<td>3</td>
<td>SCM 4824 Supply Chain Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>SCM 4721 Global Commerce</td>
<td>3</td>
<td>Non-Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
# SUPPLY CHAIN MANAGEMENT 4-SEMESTER PLAN FOR TRANSFER STUDENTS

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit Hours</th>
<th>Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3250 or ENC 3301</td>
<td>3</td>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>SCM 3005 Supply Chain Management</strong></td>
<td>3</td>
<td><strong>FIN 3403 Principles of Finance</strong></td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011 Information Systems in Organizations</td>
<td>3</td>
<td><strong>SCM 3570 Global Sourcing</strong></td>
<td>3</td>
</tr>
<tr>
<td>QMB 3200 Business &amp; Economic Statistics II</td>
<td>3</td>
<td><strong>SCM 4210 Logistics &amp; Physical Distribution Mgmt</strong></td>
<td>3</td>
</tr>
<tr>
<td>SCM 4504 Operations &amp; Supply Chain Management</td>
<td>3</td>
<td>GEB 3033 Business Workplace Skills &amp; Best Practices</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 4940 Supply Chain Internship</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Credit Hours</th>
<th>Semester 4</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 3320 Law &amp; Business I\Human &amp; Cultural Diff</td>
<td>3</td>
<td>GEB 4890 Strategic Management &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td><strong>SCM 4202 Supply Chain Analytics</strong></td>
<td>3</td>
<td><strong>SCM 4824 Supply Chain Capstone Project</strong></td>
<td>3</td>
</tr>
<tr>
<td>SCM 4721 Global Commerce</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Semester Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Data related to the need for another degree in the state

Growth in the Trade, Transportation, and Utilities industry sector is the underlying force that drives demand for supply chain management professionals in the state of Florida and the nation. The Florida Department of Economic Opportunity reports that the Trade and Transportation sector (excluding Utilities) accounts for over 1.7 million jobs in Florida (see Appendix C Table 1). This number is expected to grow by nearly 125,000 jobs from 2018 to 2026, an increase of 7.5%. In 2018, there were 51,027 job vacancies in Florida in this sector; that is, 3% of the available jobs were not filled.

The demand for Logisticians (minimum of Bachelor’s degree required) in Florida is estimated at 6,721 in 2018 (see Appendix C Table 1). This number is expected to grow by 785 jobs to 7,506 by 2026, an increase of 11.7%.

The most recent BOG report of graduates from Florida institutions (2015-2016) shows only 40 degrees awarded in the 52.0203 CIP (Logistics, Materials & Supply Management): 34 from University of North Florida and 6 from University of West Florida. While this number will increase as recently introduced programs mature, the gap between demand and supply continues to grow.

A study by Burning Glass (2018) displayed on Figure 1 shows that the skills gap for the Transportation and Materials Handling sector is among the top five in the country, weighing in at a 13% shortage.

Figure 1. Demand/Supply Ratio by Occupation
## Table 1. JOBS BY INDUSTRY IN FLORIDA

FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY

<table>
<thead>
<tr>
<th>NAICS Code</th>
<th>NAICS Title</th>
<th>Employment 2018</th>
<th>Employment 2026</th>
<th>Growth</th>
<th>Percent Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Management Occupations - Logisticians</td>
<td>6,721</td>
<td>7,506</td>
<td>785</td>
<td>11.7</td>
</tr>
<tr>
<td></td>
<td>Trade and Transportation</td>
<td>1,724,908</td>
<td>1,849,680</td>
<td>124,772</td>
<td>7.5</td>
</tr>
<tr>
<td>42</td>
<td>Wholesale Trade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>423</td>
<td>Merchant Wholesalers, Durable Goods</td>
<td>179,802</td>
<td>192,468</td>
<td>12,666</td>
<td>7.0</td>
</tr>
<tr>
<td>424</td>
<td>Merchant Wholesalers, Nondurable Goods</td>
<td>128,256</td>
<td>136,896</td>
<td>8,640</td>
<td>6.7</td>
</tr>
<tr>
<td>425</td>
<td>Wholesale Electronic Markets and Agents and Brokers</td>
<td>43,936</td>
<td>47,473</td>
<td>3,537</td>
<td>8.1</td>
</tr>
<tr>
<td>44</td>
<td>Retail Trade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>441</td>
<td>Motor Vehicle and Parts Dealers</td>
<td>151,499</td>
<td>164,386</td>
<td>12,887</td>
<td>8.5</td>
</tr>
<tr>
<td>442</td>
<td>Furniture and Home Furnishings Stores</td>
<td>38,810</td>
<td>40,525</td>
<td>1,715</td>
<td>4.4</td>
</tr>
<tr>
<td>443</td>
<td>Electronics and Appliance Stores</td>
<td>40,827</td>
<td>42,561</td>
<td>1,734</td>
<td>4.3</td>
</tr>
<tr>
<td>444</td>
<td>Building Material and Garden Equipment and Supplies Dealers</td>
<td>88,651</td>
<td>95,081</td>
<td>6,430</td>
<td>7.3</td>
</tr>
<tr>
<td>445</td>
<td>Food and Beverage Stores</td>
<td>228,561</td>
<td>243,215</td>
<td>14,654</td>
<td>6.4</td>
</tr>
<tr>
<td>446</td>
<td>Health and Personal Care Stores</td>
<td>82,885</td>
<td>92,848</td>
<td>9,963</td>
<td>12.0</td>
</tr>
<tr>
<td>447</td>
<td>Gasoline Stations</td>
<td>46,675</td>
<td>49,595</td>
<td>2,920</td>
<td>6.3</td>
</tr>
<tr>
<td>448</td>
<td>Clothing and Clothing Accessories Stores</td>
<td>112,135</td>
<td>112,392</td>
<td>257</td>
<td>0.2</td>
</tr>
<tr>
<td>451</td>
<td>Sporting Goods, Hobby, Book, and Music Stores</td>
<td>37,942</td>
<td>43,255</td>
<td>5,313</td>
<td>14.0</td>
</tr>
<tr>
<td>452</td>
<td>General Merchandise Stores</td>
<td>214,407</td>
<td>226,092</td>
<td>11,685</td>
<td>5.5</td>
</tr>
<tr>
<td>453</td>
<td>Miscellaneous Store Retailers</td>
<td>56,729</td>
<td>59,842</td>
<td>3,113</td>
<td>5.5</td>
</tr>
<tr>
<td>454</td>
<td>Nonstore Retailers</td>
<td>44,128</td>
<td>50,248</td>
<td>6,120</td>
<td>13.9</td>
</tr>
<tr>
<td>48</td>
<td>Transportation and Warehousing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>481</td>
<td>Air Transportation</td>
<td>42,589</td>
<td>48,017</td>
<td>5,428</td>
<td>12.8</td>
</tr>
<tr>
<td>482</td>
<td>Rail Transportation</td>
<td>4,948</td>
<td>4,679</td>
<td>-269</td>
<td>-5.4</td>
</tr>
<tr>
<td>483</td>
<td>Water Transportation</td>
<td>13,387</td>
<td>14,170</td>
<td>783</td>
<td>5.9</td>
</tr>
<tr>
<td>484</td>
<td>Truck Transportation</td>
<td>54,315</td>
<td>58,502</td>
<td>4,187</td>
<td>7.7</td>
</tr>
<tr>
<td>485</td>
<td>Transit and Ground Passenger Transportation</td>
<td>16,373</td>
<td>18,232</td>
<td>1,859</td>
<td>11.4</td>
</tr>
<tr>
<td>486</td>
<td>Pipeline Transportation</td>
<td>368</td>
<td>390</td>
<td>22</td>
<td>6.0</td>
</tr>
<tr>
<td>488</td>
<td>Support Activities for Transportation</td>
<td>60,800</td>
<td>67,330</td>
<td>6,530</td>
<td>10.7</td>
</tr>
<tr>
<td>493</td>
<td>Warehousing and Storage</td>
<td>36,885</td>
<td>41,483</td>
<td>4,598</td>
<td>12.5</td>
</tr>
</tbody>
</table>
February 27, 2019

Dr. Moez Limayem  
Muma College of Business  
University of South Florida  
4202 East Fowler Avenue  
Tampa, FL  33620-5500

Dean Limayem,

The purpose of this letter is to provide support for USF’s two proposed degree programs in supply chain management— the Bachelor of Science degree in supply chain management- and the Master of Science degree in supply chain management. Both degrees address a major talent shortfall within the global supply chain management industry space. Additionally, supply chain salaries for graduates are higher than most starting salaries for most other occupations. Placement rates for students concentrating in SCM have exceeded 90% for the past few years and with B.S. and M.S. programs, the hiring rates could even be higher.

The content and specific courses to be offered were created utilizing a partnership between industry practitioners and faculty at USF’s Center for Supply Chain Management & Sustainability. The proposed M.S./SCM degree program is the first of its kind to leverage a USF partnership with MIT in that several courses are offered online by MIT. This helps reduce program costs for students and enables USF faculty to add additional electives and innovative courses to the programs, such as Sustainable Supply Chain Management, Global Sourcing, and others.

Supply Chain is now part of the STEM initiative, thus the promotion and emphasis on needed skills. These degrees are very attractive to the female student as a favorable alternative to computer science and engineering. Individuals in the programs develop skillsets that allow them to contribute to their future employers immediately after they are hired.

These programs are worthwhile and fill a need in the marketplace. I am pleased to provide my support for these programs. If you have any questions, do not hesitate to contact me.

Sincerely,

Monica B. Wooden  
Co-founder MercuryGate International, Inc.  
mbw@mercurygate.com  
813-505-6235
February 25, 2019

Moez Limayem
Muma College of Business
University of South Florida
4202 East Fowler Avenue
Tampa, FL 33620-5500

Dear Dean Limayem

The purpose of this letter is to highlight my support for the two proposed degree programs in supply chain management, at USF’s Muma College of Business. While geared for individuals at different stages in their careers, both the BS and MS programs address a critical talent shortfall within the global supply chain management industry space. Whether dealing with the trade imbalance issues in Florida, or working on other national and/or global supply chain initiatives, our economy needs individuals with these skills.

The proposed programs were created through an industry/academic collaboration featuring Muma supply chain faculty and executive advisory board members of the Center for Supply Chain Management & Sustainability. Therefore, the learning objectives were developed to address current and future needs in this high-growth field. The BS/SCM program helps to address critical workforce, economic development, and STEM education needs through courses emphasizing global logistics, transportation, and manufacturing. Targeted to managers, the proposed MS/SCM degree program helps seasoned supply chain professionals build and refine their skills, enabling them to further their careers in management and executive roles. This program is the first of its kind to leverage a USF partnership with MIT for content delivery. This helps reduce costs for students, while opening up opportunities for them to continue with graduate coursework in a one-of-a-kind format.

The innovative programs highlighted above are very much needed in and across industries. They help individuals continue to develop their skills in ways that allow them to tackle problems not even yet invented. Please accept my support of these programs, and feel free to contact me with questions.

Sincerely,

Michael Armanious
April 15, 2019

Dr. Ralph C. Wilcox
Provost and Executive Vice President
University of South Florida
4242 East Fowler Avenue, CGS 401
Tampa, FL 33620

Dear Provost Wilcox:

Thank you for the opportunity to review both the proposed BS and MS Logistics, Materials, and Supply Chain Management. Florida International University is supportive of your creating separate degree programs in this field.

As FIU continues to work within the Florida Consortium of Metropolitan Research Universities with your institution, we look forward to following your success in the degree implementations and continuing our collaborative efforts. The Supply Chain faculty in FIU’s Marketing Department expect there to be opportunities in the future to work together on solving some of Florida’s supply chain challenges.

Sincerely,

Kenneth G. Furton
Provost and Executive Vice President
Dr. Ralph C. Wilcox  
Provost and Executive Vice President  
University of South Florida  
4202 East Fowler Avenue, CGS 401  
Tampa, FL 33620-6100

Dear Dr. Wilcox:

Thank you for the opportunity to review the proposal for the new degree program—Bachelors in Logistics, Materials, and Supply Chain Management. Florida Agricultural and Mechanical University (FAMU) currently offers a B.S. in Supply Chain Management (CIP 52.0203). Supply chain is a fast growing industry and the need for professionals trained in this area is significant. The proposed program by USF helps to further address this need along with FAMU and other programs within the SUS offering such a degree. Therefore, FAMU offers full support for the Bachelors in Logistics, Materials, and Supply Chain Management.

Best wishes to your team as they move forward in developing the program. We believe this program will be a benefit to the State University System and workforce of Florida.

Sincerely,

Maurice Edington, Provost and Vice President  
for Academic Affairs

c: Dean Shawnta Friday-Stroud  
School of Business and Industry

Dr. Sundra Kincey  
Assistant VP for Academic Affairs
March 27, 2018

Dr. David Swanson  
Associate Professor of Transportation and Logistics  
Co-Editor-in-Chief *Transportation Journal*  
Department of Marketing and Logistics  
Coggin College of Business  
University of North Florida  
1 UNF Drive  
Jacksonville, FL 32224

Dean Moez Limayem  
Muma College of Business  
University of South Florida  
4202 E. Fowler Avenue  
Tampa, FL 33620

Dear Dr. Limayem,

I was excited to hear that the University of South Florida is nearing the finalization of a BS and MS in Supply Chain Management. I wanted to write a letter in support of your efforts.

The demand for people trained in supply chain management continues to grow, and this demand is outpacing the supply. It’s not enough for students to be trained in one aspect of supply chain management, such as transportation, purchasing, or logistics information systems. Industry is requiring students who have a strong understanding of end-to-end supply chain management. The USF degree programs in supply chain management will go a long way toward meeting industry demands in Florida.

In Fall 2019 the University of North Florida will be accepting students who seek a MS degree in Logistics and Supply Chain Management, which closely parallels the USF curriculum for the MS in SCM. You may have heard that Florida International University also has recently approved a graduate degree program in supply chain management. These programs are testimony of the need for supply chain management education, and there is demand in all the economic regions of Florida.

Sincerely,

David

David Swanson, PhD  
Associate Professor of Transportation and Logistics  
Co-Editor-in-Chief, *Transportation Journal*  
University of North Florida
April 3, 2019

Dean Moez Limayem
Muma College of Business
University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620

Dear Dean Limayem,

It is a privilege to support the efforts of the University of South Florida in establishing Bachelors and Masters Degrees in Supply Chain Management. Having participated in proposing and establishing our supply chain related degrees at UWF, I have researched the state of logistics within Florida and throughout the United States. It is clear to me that graduates, having supply chain management knowledge and skills, are in high demand by industry, yet, there are not enough stand alone supply chain degree programs to meet industry demand.

Trade and logistics has been identified by the Florida Chamber of Commerce as highly important for positioning Florida as a leader among states for global trade and investment. The Florida Trade and Logistics 2013 study concluded the need for 150,000 supply chain related new jobs up to the present. Nationwide, the U.S. Bureau of Labor Statistics indicates an expected 22% growth of jobs related to supply chain management by 2022.

To meet such industry demand, the stand alone supply chain related degrees from our Florida colleges and universities must also grow. Our graduates receive starting salaries among the highest awarded to business graduates; approximate starting annual salaries averaging $50,000 to $60,000 and some exceeding $70,000. Moreover, our students have nearly 100% job placement in a supply chain related position upon graduation. This is very similar to that of our other Florida supply chain degree programs and across the nation, as a whole.

Dean Limayem, without disciplined knowledge in supply chain management, frontline and executive managers are likely to make critical workplace decisions that are more costly and reduce quality of service. Consequently, Florida’s goal to gain a competitive advantage in trade and logistics could be jeopardized in the absence of growth among our university supply chain degree programs.

Two publications fully discuss the importance of supply chain knowledge and the state of supply chain and logistics education; “Are You the Weakest Link in Your Supply Chain?” Slone, Mentzer and Dittman, Harvard Business Review, 1997, V. 85, No. 9, pp. 116-127; and “The Future of Logistics Education,” Ozment and Keller, Transportation Journal, 2011, V. 50, No. 1, pp. 65-83. Adding to those, a recent study indicates a 6:1 demand to supply ratio for new college graduates in supply chain management related fields (Supply Chain Insight, August 2013, p. 3).
Our UWF standalone Supply Chain Logistics Management Degree has increased to over 100 majors and has exceeded our initial projected growth by about 30% to this point. Dean Limayem, industry demand is high for graduates, student demand is high for the major, and salaries and opportunities for graduates in supply chain management are among the highest. Your proposed degrees in supply chain management are important to the students, industry, and discipline within Florida and across the nation.

Thank you for the opportunity to show my support. My colleagues and I look forward to future opportunities to collaborate with your supply chain faculty and advance the opportunities for our Florida students, contribute to Florida’s advancement in supply chain related industries, and pursue joint research to advance our collective knowledge of supply chain management.

Sincerely,

Scott B. Keller, Ph.D.
Professor, Logistics and Supply Chain Management
Director of the Center for Supply Chain Management Excellence
Associate Editor, Journal of Business Logistics
Former Editor-in-Chief, International Journal of Logistics Management
Department of Marketing, Supply Chain Logistics, and Economics
University of West Florida
11000 University Parkway
Pensacola, FL 32514
850-857-6441
skeller@uwf.edu
Appendix D

Donna Davis

Education
Ph.D., University of Tennessee, Marketing and Information Management, 2003
M.B.A., University of Tennessee, 1993
B. A., Maryville College, 1983

Academic Experience
University of South Florida
- Marketing Department Chair 2016 - present
- Professor 2015 – present
- Co-Director, Center for Supply Chain Management & Sustainability 2013 – present
- Associate Professor 2013 - 2015

Texas Tech University
- Associate Professor, Georgie G. Snyder Professorship 2009-2013
- Coordinator, Global Supply Chain Management Program 2009-2013
- Assistant Professor 2003-2009

Current Memberships in Professional Organizations
- Council for Supply Chain Management Professionals
- American Marketing Association
- Academy of Marketing Science

Service Activities Within and Outside of Institution

University Committees
- Muma College of Business Undergraduate Programs Committee 2013 – 2015
- Muma College of Business MBA Committee 2013 – 2015

Editorial Positions
- Senior Associate Editor: International Journal of Physical Distribution & Logistics Management
- Executive Advisory Board: Journal of Business Logistics

Research – Selected Refereed Journal Articles

**Research Funding**

• 2016, Co-PI, Evaluation of Florida’s Inbound and Outbound Freight Imbalance, *Florida Department of Transportation*, $199,660.
• 2015, Co-PI, Land Use Analysis to Enhance Successful Logistics Activity Center Development, *Florida Department of Transportation – District 7*, $123,601.
• 2015, Principal Investigator, Supply Chain Audit for Pasco County Food Services, *Pasco County School District*, $10,000.
Robert Hooker

Education
Ph.D. Business Administration, The Florida State University, 2010
Master of Business Administration, The Florida State University, 2005
Bachelor of Science, The Florida State University, 2002

Academic Experience
University of South Florida, Associate Professor 2015-Present
Florida State University, Instructor 2005-2010

Non-Academic Experience
First Command Financial Services, Ft. Worth, TX, Marketing Specialist/Consultant 2004-2005
State of Florida, Dept. of Management Services, Tallahassee, FL, Researcher 2005
JP Morgan Chase, Chicago, IL/Detroit, MI, Banking Analyst 2002-2003

Current Memberships in Professional Organizations
Council for Supply Chain Management Professionals
Institute for Supply Management
Decision Sciences Institute
Academy of Marketing Science
American Marketing Association

Service Activities Within and Outside of Institution
Editorial Review Board - Journal of Supply Chain Management
Reviewer - Journal of Cleaner Production, European Journal of Information Systems, Sustainable Value Chain Management, Encyclopedia of E-Collaboration,
Managing Editor - CAIS (Jan. 2008- March 2009)
Conference Co-coordinator – New Ventures in Virtual Worlds Conference
(McComB S. Business School – University of Texas at Austin, 2009)
USF Search Committees (Supply Chain, Strategy, IS/DS, and Entrepreneurship (2011-2013)
USF CES Committee (2011-2012)
USF AACSB Assessment Committee (2011-2012)
USF PolySTEM Committee (2012)
USF Graduate Committee (2011-2012)

Research – Refereed Journal Articles
  *One of the Top 10 most downloaded articles in JSCM history.

Refereed Book Chapters

Grant Activity
• U.S. Department of State, Project ID: P000974, Supply Chain Research Project Grant with Swedish Government, $3.1k, (2017, Awarded)
• Nordic Innovation Center (Associate Research Recipient), $1M, (2010-2012, Awarded)
• Global Faculty Fellowship Grant, $1.4k, (Fall 2017, Awarded)
Seckin Ozkul

**Education**
Ph.D. in Transportation Engineering, University of Florida  
Master of Civil Engineering (with focus on Transportation), University of South Florida  
Bachelor of Civil Engineering, Auburn University

**Academic Experience**
University of South Florida, Marketing Dept., Instructor  
Center for Urban Transportation Research, USF, Research Associate & Adjunct  
University of Florida, Graduate Research Assistant  
Auburn University, Research Assistant

**Non-academic Experience**
Sprinkle Consulting, Tampa, FL, Staff Engineer  
Vratsinas Construction Company, Atlanta, GA, Assist. to the Project Mgr.

**Current Memberships in Professional Organizations**
- Associate, Center for Supply Chain Management and Sustainability (CSCMS) at Muma College of Business, USF
- Affiliated Faculty Member, Center for Urban Transportation Research (CUTR) at USF
- Founding Member, USF Freight Mobility, Trade and Logistics Research Group
- Fellow, International Road Federation (IRF)
- Secretary, TRB Freight Transportation Economics and Regulation Committee (AT010)
- Member, TRB Urban Freight Transportation Committee (AT025)
- Member, TRB Highway Capacity and Quality of Service Committee (AHB40)
- Member, ASCE Freight and Logistics Committee
- Member, Institute of Transportation Engineers (ITE)
- Member, Tau Beta Pi Engineering Honor Society
- Past-Vice President, University of Florida ITE Student Chapter – 2014

**Research**

**Refereed Journal Articles**
SELECTED PROJECTS (2007-2018)

- SPARC Initiative to Create a Carinata Biofuel Supply Chain in the Southeastern United States (Funding awarded: $118,315 – co-PI)
- Evaluation of Florida’s Inbound and Outbound Freight Imbalance (Funding awarded: $199,700 - PI)
- Metropolitan Freight Transportation Implementing Effective Strategies (Funding awarded: $375,000 – Co-PI’s portion: $75,000)
- Land Use Analysis to Enhance Successful Logistics Activity Center Development (Funding awarded: $123,600 - PI)
- Commercial Heavy Vehicle Impacts on Signalized Arterials (Funding Awarded: $231,684 – PI)
- Determination of Traffic Adjustment Factors for Florida’s High Tourist Activity Sites (Funding awarded: $119,947 - PI)
- Comparing Countermeasures for Mitigating Wrong-way Entries onto Limited Access Facilities (Funding awarded: $268,398 – Co-PI’s portion: $68,000)
- Connected Vehicle Pilot- Tampa Hillsborough Expressway Authority (THEA) – Phase 1 (Funding Awarded: $200,000 – Research engineer’s portion: $25,000)
- Assessing Interactions between Access Management Treatments and Multi-Modal Users (Funding Awarded: $800,000 – Research engineer’s portion: $35,000)
- Data for Truck-Route Choice Analysis of Port Everglades Petroleum Commodity Flows (Funding Awarded: $45,000 – Co-PI’s portion: $5,000)
- Development of Effective Truck Route Signing Program for City of Tampa (Funding Awarded: $60,000 – Co-PI’s portion: $45,000)
- Evaluation of Logistics Led Economic Development in Florida (Funding Awarded: $220,000 – Co-PI’s portion: $95,000)
James Stock

Education
Ph.D., The Ohio State University, 1975
MBA, The University of Miami, 1971
B.S., The University of Miami, 1968

Academic Experience
University of South Florida
Distinguished University Professor, University of South Florida 2012-present
Frank Harvey Endowed Professor of Marketing 2008-present
Professor 1989-2007

Michigan State University
Professor, Department of Marketing and Transportation Administration, 1987-1989

School of Systems and Logistics, Air Force Institute of Technology
Distinguished Visiting Professor of Logistics Management 1986-1988

University of Oklahoma
Associate Professor of Marketing 1980-1987

University of Notre Dame
Assistant Professor of Marketing 1975-1980

Current Memberships in Professional Organizations
American Association for the Advancement of Science (AAAS)
Beta Gamma Sigma (BGS)
Faculty Commons (formerly Christian Leadership Ministries)
Council of Supply Chain Management Professionals (CSCMP)
Phi Kappa Phi
SOLE—The International Society of Logistics
Warehousing Education and Research Council (WERC)

Selected Service Activities Within and Outside of Institution
University of South Florida:
- Co-Director, Center for Supply Chain Management and Sustainability, College of Business, Department of Marketing (2013-present)
- A.P.J. Abdul Kalam Postgraduate Fellowship Selection Committee (2016)
- Chair, USF Distinguished University Professor Selection Committee (2016)
- Faculty Liaison to the Workgroup on Finance and Audit, USF Board of Trustees (2013-2015)
- USF Honors and Awards Committee (2007-2010; 2010-2013)
- USF Distinguished University Professor Guidelines Review Committee (2013)
- USF Graduate Council (1991-1995); Vice Chair (1993-1994)
- Ph.D. Coordinator, Department of Marketing (1991-2000, 2004-2013)

Editorships:
- Business Logistics Section Editor, Logistics Spectrum 1999; 2000-2001
Editorial Review Boards:

- Asia-Pacific Marketing Review (2012-present)
- European Business Review (2005-present)
- International Journal of Physical Distribution and Logistics Management (2004-present)
- International Journal of Value Chain Management (2003-present)
- Journal of Business Logistics (2004-present)
- Logistics Quarterly (2011-present)
- Logistics Research (2008-present)
- Paradigm—Journal of IMT Ghaziabad (2005-present)
- Pertanika Journal of Social Sciences & Humanities (2009-present)
- South African Journal of Transportation and Supply Chain Management (2005-present)
- Strategic Insights into Quality (1992-1998)

Selected Research 2008 - 2018

Refereed Journal Articles

Kerry Walsh

**Education**
- MS in Marketing, University of South Florida  
  2010
- B.A., Business Economics, University of California, Santa Barbara  
  2008

**Academic Experience**
- Exide Instructor, University of South Florida  
  2018-present
- Instructor, University of South Florida  
  2013-present
- Director, Business Honors Program, University of South Florida  
  2016-2018
- Adjunct Instructor, University of South Florida  
  2010-2012

**Non-academic Experience**
- Editor/author, Pearson Higher Education  
  2013-present
- Logistics Director, Purple Cows, Inc., Provo, UT  
  2010-2014
- Principal, KMW Management, Tarpon Springs, FL  
  2004-present
- Vice President, Sourcing & Operation, Sourcingpartner, Inc. Dallas, TX  
  1999-2004
- Merchandise Import Manager, S.P. Richards Co., Atlanta, GA  
  1997-1999
- Product Manager, Rolodex Corp., Secaucus, NJ  
  1990-1997

**Current Memberships in Professional Organizations**
- American Marketing Association
- Council for Supply Chain Management Professionals

**Service Activities Within and Outside of Institution**
**University of South Florida:**
- Faculty advisor, USF Council for Supply Chain Management Professionals Student Roundtable
Issue:  M.S. Supply Chain Management – CIP 52.0203

Proposed action:  Approval

Executive Summary:

The proposed Master of Science in Supply Chain Management (M.S./SCM) is a 32-credit hour graduate program that aims to equip working professionals in the supply chain industry with the knowledge and skills required to advance in their careers in the field of supply chain management. The program is designed to allow students to continue full-time employment while pursuing the degree. Since 2014, the University of South Florida has offered a 15-credit hour graduate concentration in Supply Chain Management for working professionals enrolled in the part-time M.B.A. program, which will be discontinued when the M.S./SCM is introduced.

Supply chain management is a business function that ensures the efficient and effective management of the flow of goods, services, and finances among firms to transform raw materials to finished products along with managing reverse flows (e.g., defective or damaged products, product returns, end-of-life disposal) in a sustainable manner. The development of a supply chain management talent pool is highlighted as a core need for workforce development in the Florida Trade & Logistics Study 2.0 (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development. The proposed M.S./SCM is a direct response to the need for talent development to support Florida’s growing supply chain industry.

The primary market for the M.S./SCM will be Florida companies that will identify employees who would benefit from advanced training while staying on the job. The goal is to enroll a cohort of 25 students in year 1, doubling to 50 students by year 5. The proposed M.S./SCM is in direct response to requests by members of the business advisory board of USF’s Center for Supply Chain Management & Sustainability (CSCMS) who expressed the need to have a program with greater breadth and depth than can be provided in an M.B.A. concentration. A working group of volunteers drawn from the CSCMS advisory board collaborated with supply chain management faculty to develop the M.S./SCM curriculum.
Financial Impact:

No new faculty lines are requested because this new degree program will transition from an existing graduate Supply Chain Management concentration in the M.B.A. program to a graduate degree program in Supply Chain Management within the Department of Marketing. The faculty salaries will be reallocated from the concentration to the new degree program.

Strategic Goal(s) Item Supports:

- USF Tampa Strategic Plan Goal 1: Student Success

BOT Committee Review Date: ACE May 14, 2019

Supporting Documentation Online (please circle): Yes  No

USF System or Institution specific: USF

Prepared by: Donna Davis, Ph.D., Professor, Chair, Department of Marketing
Board of Governors, State University System of Florida

Request to Offer a New Degree Program

(Please do not revise this proposal format without prior approval from Board staff)

University of South Florida, Tampa  Spring 2020
University Submitting Proposal  Proposed Implementation Term

Muma College of Business  Marketing
Name of College(s) or School(s)  Name of Department(s)/Division(s)
Supply Chain Management  Master of Science in Supply Chain Management
Academic Specialty or Field  Complete Name of Degree

52.0203  
Proposed CIP Code

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met prior to the initiation of the program.

Date Approved by the University Board of Trustees  
President  
Date

Signature of Chair, Board of Trustees  
Date  
Vice President for Academic Affairs  
Date

Provide headcount (HC) and full-time equivalent (FTE) student estimates of majors for Years 1 through 5. HC and FTE estimates should be identical to those in Table 1 in Appendix A. Indicate the program costs for the first and the fifth years of implementation as shown in the appropriate columns in Table 2 in Appendix A. Calculate an Educational and General (E&G) cost per FTE for Years 1 and 5 (Total E&G divided by FTE).

<table>
<thead>
<tr>
<th>Implementation Timeframe</th>
<th>Projected Enrollment (From Table 1)</th>
<th>Projected Program Costs (From Table 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
</tr>
<tr>
<td>Year 1</td>
<td>25</td>
<td>17.71</td>
</tr>
<tr>
<td>Year 2</td>
<td>25</td>
<td>17.71</td>
</tr>
<tr>
<td>Year 3</td>
<td>50</td>
<td>35.42</td>
</tr>
<tr>
<td>Year 4</td>
<td>50</td>
<td>35.42</td>
</tr>
<tr>
<td>Year 5</td>
<td>50</td>
<td>35.42</td>
</tr>
</tbody>
</table>

Note: This outline and the questions pertaining to each section must be reproduced within the body of the proposal to ensure that all sections have been satisfactorily addressed. Tables 1 through 4 are to be included as Appendix A and not reproduced within the body of the proposals because this often causes errors in the automatic calculations.
INTRODUCTION

I. Program Description and Relationship to System-Level Goals

A. Briefly describe within a few paragraphs the degree program under consideration, including (a) level; (b) emphases, including majors, concentrations, tracks, or specializations; (c) total number of credit hours; and (d) overall purpose, including examples of employment or education opportunities that may be available to program graduates.

The proposed Master of Science in Supply Chain Management (M.S./SCM) is a 32-credit hour graduate program. The USF M.S./SCM aims to equip working professionals in the supply chain industry with the knowledge and skills required to advance in their careers in the field of supply chain management. The program is designed to allow students to continue full-time employment while pursuing the degree. Supply chain management is a business function that ensures the efficient and effective management of the flow of goods, services, and finances among firms to transform raw materials to finished products along with managing reverse flows (e.g., defective or damaged products, product returns, end-of-life disposal) in a sustainable manner.

The development of a supply chain management talent pool is highlighted as a core need for workforce development in the Florida Trade & Logistics Study 2.0 (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development. The proposed M.S./SCM is a direct response to the need for talent development to support Florida’s growing supply chain industry. The primary market for the M.S./SCM will be Florida companies that will identify employees who would benefit from advanced training while staying on the job. Thus, the USF M.S./SCM would become a component of talent development for Florida-based companies in the supply chain industry.

Currently, the University of South Florida (USF) offers a 15-credit hour graduate concentration in Supply Chain Management for working professionals enrolled in the part-time M.B.A. program. The current M.B.A. concentration in Supply Chain Management will be discontinued when the M.S./SCM is introduced. The proposed M.S./SCM is in direct response to requests by members of the business advisory board of USF’s Center for Supply Chain Management & Sustainability (CSCMS). Advisory board members expressed the need to have a program with greater breadth and depth than can be provided in a 15-hour concentration. A working group of volunteers drawn from the CSCMS advisory board collaborated with supply chain management faculty to develop the M.S./SCM proposal to meet the needs of industry.

The USF M.S./SCM uses a two-step design. Students who enroll in the M.S./SCM will earn a 15-credit-hour Supply Chain Management graduate certificate upon completion of the initial five-course sequence. These courses will be offered online to allow students to continue in full-time employment. It is important to note that this two-step design allows students to stop with a USF graduate certificate in Supply Chain Management. This approach will provide greater access to graduate education by allowing students who cannot make a commitment to a full degree program due to work or personal obligations to earn a graduate certificate. For example, students who already hold master’s degrees (e.g., M.S./Industrial Engineering or M.S./Information Systems) might need only the fundamentals of supply chain management provided by the graduate certificate, rather than a second master’s degree.

Beyond the initial 15 credit hours earned in the graduate certificate, students will complete an additional 17 credit hours over two semesters to earn the M.S./SCM. The courses will be offered in a hybrid format (30% face-to-face and 70% online) where students are in residence for one week each semester (January and May) and complete the remainder of the work online. This format allows students to stay on the job while they earn the M.S./SCM.
Program Summary:
(a) **Level:** M.S. degree in Supply Chain Management (M.S./SCM) CIP 52.0203
(b) **Emphases:** There are no emphases, concentrations, tracks or specializations in the degree.
(c) **Total number of credit hours:** 32 credit hours
(d) **Overall purpose:** The overall purpose of the program is to provide advanced training to working professionals in Florida’s supply chain industry who need to advance their supply chain knowledge and skills. The target market is managers who currently work in operational areas such as procurement, transportation, information systems, production planning, and inventory management who received formal training at the undergraduate level in disciplines such as management, engineering, or information systems and now need the knowledge and tools from the supply chain discipline to advance in their careers.

References:
Florida Chamber of Commerce (October 2013) *Florida Trade & Logistics Study 2.0.*

B. Please provide the date when the pre-proposal was presented to CAVP (Council of Academic Vice Presidents) Academic Program Coordination review group. Identify any concerns that the CAVP review group raised with the pre-proposed program and provide a brief narrative explaining how each of these concerns has been or is being addressed.

The CAVP Academic Program Coordination Workgroup reviewed the pre-proposal on February 6, 2018 and no concerns were raised.

C. If this is a doctoral level program please include the external consultant’s report at the end of the proposal as Appendix D. Please provide a few highlights from the report and describe ways in which the report affected the approval process at the university.

Not applicable. This is not a doctoral level program.

D. Describe how the proposed program is consistent with the current State University System (SUS) Strategic Planning Goals. Identify which specific goals the program will directly support and which goals the program will indirectly support (see link to the SUS Strategic Plan on the resource page for new program proposal).

The M.S./SCM directly supports the State University System Strategic Planning Goals (indicated by double check) and indirectly supports other goals (indicated by a check) in the 2025 System Strategic Plan as outlined below.

<table>
<thead>
<tr>
<th>State University System Goals</th>
<th>Excellence</th>
<th>Productivity</th>
<th>Strategic Priorities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching &amp; Learning</td>
<td>✨ Strengthen Quality &amp; Reputation of Academic Programs and Universities</td>
<td>✨ Increase Degree Productivity and Program Efficiency</td>
<td>✨ Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis</td>
</tr>
<tr>
<td>Scholarship, Research, and Innovation</td>
<td>✨ Strengthen Quality &amp; Reputation of Scholarship, Research, and Innovation</td>
<td>✨ Increase Research Activity and Commercialization Activity</td>
<td>Increase Collaboration and External Support for Research Activity</td>
</tr>
<tr>
<td>Community &amp; Business Engagement</td>
<td>✨ Strengthen Quality &amp; Recognition of Commitment to Community and Business Engagement</td>
<td>✨ Increase Levels of Community &amp; Business Engagement</td>
<td>✨ Increase Community and Business Workforce</td>
</tr>
</tbody>
</table>
TEACHING & LEARNING

• **Excellence - GOAL: Strengthen quality and reputation of academic programs and universities**
  Supply chain management programs are annually ranked by prestigious organizations including U.S. News and World Report, Forbes, and Gartner. The proposed M.S./SCM provides the opportunity for USF to gain recognition within the ranks of top-ranked programs including AAU universities such as Carnegie Mellon, Georgia Tech, Massachusetts Institute of Technology, Michigan State, Ohio State, Penn State, and University of Texas/Austin.

• **Productivity – GOAL: Increase degree productivity and program efficiency**
  The proposed M.S./SCM degree will allow students to complete their degrees while maintaining full-time employment. Classes will be offered either completely online or in a hybrid format where students are in residence for only one week per semester that accommodates the schedules of working professionals. Students will be admitted as a cohort and tracked for timely completion of their degrees.

• **Strategic priorities for a knowledge economy – GOAL: Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis**
  Supply chain management is included in the Florida SUS list of Programs of Strategic Emphasis (CIP 52.0203 Logistics, Materials, and Supply Management) and is categorized as a STEM program. The proposed degree will add up to 50 new STEM graduate degrees awarded each year at USF.

SCHOLARSHIP, RESEARCH & INNOVATION

• **Excellence - GOAL: Strengthen Quality and Reputation of Scholarship, Research and Innovation**
  Faculty associated with the proposed M.S./SCM are currently engaged in several collaborative, externally funded research projects that directly benefit the economic development of the state of Florida. For example, faculty associated with the proposed M.S./SCM are currently engaged in a collaborative project to develop and distribute an innovative, sustainable carinata-based (Ethiopian mustard seed) source of alternative fuel and high-protein livestock food. The project is part of the Southeastern Partnership for Advanced Renewables from Carinata (SPARC) team based at the University of Florida and funded by the US Department of Agriculture.

  Other collaborative research projects include projects with the USF Center for Urban Transportation Research (CUTR) funded by the Florida Department of Transportation: (1) evaluation of inbound-outbound freight flows; (2) developing a GIS tool to determine potential locations of logistics activity centers for use in urban freight transportation planning. Future projects that examine urban freight movement and economic development related to infrastructure investments are in the planning stages.

  Two SCM faculty members are Fulbright scholars. Dr. Jim Stock received a core Fulbright fellowship in Helsinki, Finland where he did research in reverse logistics and sustainable supply chain management. Dr. Rob Hooker is a Fulbright Specialist in the area of supply chain management. His first engagement was with the Stockholm School of Economics.

• **Productivity – Increase research and commercialization activity**
  The aim of the SPARC project is to commercialize products from in the carinata supply chain. Research conducted by SCM faculty indirectly supports commercialization activity by providing expertise to start-up ventures in the Tampa Bay area.

• **Strategic priorities for a knowledge economy – Increase collaboration and external support for...**
In addition to ongoing collaboration with UF and CUTR, we are exploring establishing a research center under the auspices of the Volvo Research and Educational Foundations (VREF) program that would engage researchers from up to five U.S.-based centers. VREF provides financial support for establishing Centers of Excellence to create platforms for collaborative research related to the future of urban freight transport (http://www.vref.se/futprogramme.4.64ace19a14615fa7f238d79c.html).

COMMUNITY & BUSINESS ENGAGEMENT

- **Excellence – GOAL: Strengthen quality and recognition of commitment to community and business engagement**
  In direct response to the call for statewide collaboration in the supply chain industry, USF brought together a planning group to launch the Florida Supply Chain Summit. Working with a statewide steering committee comprised of representatives from industry, government, and academia, the USF Center for Supply Chain Management & Sustainability led the effort (https://floridasupplychainsummit.com/). The Summit was held in February 2019 and drew 300 attendees from Florida’s supply chain industry. The mission of the Florida Supply Chain Summit is to provide a platform for statewide collaboration among key representatives from industry, professional organizations, government, economic development agencies, and higher education for the purpose of advancing the state of Florida as a global trade hub. This significant, highly visible effort was in the planning stage for over a year.

- **Productivity – GOAL: Increase levels of community and business engagement**
  Executives from the supply chain industry will be engaged in the M.S./SCM as guest lecturers and as collaborators/evaluators in the Supply Chain Management Capstone course. In addition, the USF CSCMP (Council for Supply Chain Management Professionals) Student Roundtable hosts weekly meetings throughout the academic year with guest speakers from Tampa Bay companies. The Roundtable also sponsors field trips to area company sites and conducts community service activities. For example, student members of the Roundtable worked with Florida’s Habitat for Humanity program in 2018 on a project to analyze Habitat’s supply base. The project identified over $800,000 in potential savings by centralizing key purchases.

- **Strategic priorities for a knowledge economy – GOAL: Increase community and business workforce**
  As a discipline, the field of supply chain management is highly engaged with industry to ensure the development of a talent pool to support the growing demand for supply chain professionals and to keep abreast of dynamic technological and regulatory changes. The proposed M.S./SCM is directly targeted at increasing the number of Florida SCM professionals with graduate degrees. Business partners engaged in developing the USF M.S./SCM curriculum include Bloomin’ Brands, Bristol-Myers Squibb, CH Robinson, Datex, Honeywell Aerospace, Jabil, Marten Transport, Masonite, Ravago/Entec, Saddle Creek Logistics, and TechData.

E. If the program is to be included in a category within the Programs of Strategic Emphasis as described in the SUS Strategic Plan, please indicate the category and the justification for inclusion.

The Programs of Strategic Emphasis Categories:

1. Critical Workforce:
   - Education
   - Health
   - Gap Analysis

2. Economic Development:
   - Global Competitiveness

3. Science, Technology, Engineering, and Math (STEM)

Please see the Programs of Strategic Emphasis (PSE) methodology for additional explanations on program inclusion criteria at the resource page for new program proposal.
The M.S./SCM (52.0203 Logistics, Materials, and Supply Management) is identified as a Program of Strategic Emphasis (Fall 2014) under the category of Economic Development – STEM. These programs directly support the distribution, transportation, and manufacturing industries in Florida. The proposed M.S./SCM will add up to 50 new STEM graduates each year to USF’s profile.

F. Identify any established or planned educational sites at which the program is expected to be offered and indicate whether it will be offered only at sites other than the main campus.

The USF M.S./SCM courses will be offered completely online or in a hybrid format with on campus (30%) and online (70%) components.

INSTITUTIONAL AND STATE LEVEL ACCOUNTABILITY

II. Need and Demand

A. Need: Describe national, state, and/or local data that support the need for more people to be prepared in this program at this level. Reference national, state, and/or local plans or reports that support the need for this program and requests for the proposed program which have emanated from a perceived need by agencies or industries in your service area. Cite any specific need for research and service that the program would fulfill.

National need: Growth in the logistics sector at the national level is projected by the Bureau of Labor Statistics to be 10.3% through 2026, adding nearly 13 million jobs with a median annual wage of $74,590. A recent study published in the Harvard Business Review (Delgado & Mills, 2018) estimates that supply chains contain 37 percent of all U.S. jobs and employ 44 million people: “These jobs have significantly higher than average wages, and account for much of the innovative activity in the economy.” The intensity of STEM jobs in the industry drive a high level of patent activities. An examination of the drivers of the national shortage of supply chain talent states that “Demand for supply chain professionals exceeds supply by a ratio of 6 to 1” (Harrington, 2015).

State need: The Florida Department of Economic Opportunity and Enterprise Florida identify “Logistics and Distribution” as one of the five major industries for economic growth in the state (Enterprise Florida, 2013). In Florida, employment in this sector is expected to grow 12% through 2025 with a median wage of $66,850.

The development of a supply chain management talent pool is highlighted as a core need for workforce development in the Florida Trade & Logistics Study 2.0 (Florida Chamber, 2013) that sets forth the vision for positioning Florida as a global trade hub to support statewide economic development. The report envisions Florida as the leading location for trade and logistics education and training, calling for a globally oriented talent development program to meet Florida’s business needs and to build professional relationships as the basis for future trade and investment decisions.

Moreover, employment in the supply chain industry provides well-paying jobs: workers in Florida transportation, trade and logistics earn 30% higher wages than the average for all jobs in the state. An important component of the industry supports globalization: Enterprise Florida reports international trade activity for Florida was $148 billion in 2017 with over $70 billion in exports. The state ranks 8th in the country for exporting with Florida as home to one in five U.S. exporters (Enterprise Florida, 2018).

Local need: The proposal for the USF M.S./SCM emanated from requests by Tampa Bay business partners who serve on the USF Center for Supply Chain Management &
Sustainability’s advisory board. Companies represented on the advisory board include Datex Corporation, Mercury Gate, Marten Transport, Port Tampa Bay, Reed TMS, Citi, Jabil, Mosiac, Masonite, Bristol-Myers Squibb, Bloomin’ Brands, and CH Robinson. While these companies are pleased with the graduates who have earned the concentration in supply chain management, they requested that USF deliver a master’s degree to allow greater depth in the coursework.

**Need for research and service:** The vision for the future of Florida is to ensure a globally competitive economy by developing the state as a vibrant hub for international and domestic trade and investment (Florida Chamber, 2013). This vision requires a commitment to a statewide, multimodal system of trade gateways, logistics centers, and transportation corridors that delivers on the promise of efficient and effective freight movement (Florida Department of Transportation, 2010). To achieve this vision, Florida needs a statewide collaborative platform to identify issues, conduct necessary research, and implement action plans (Pinjari et al., 2015).

To address the need for a state-wide research collaboration, the supply chain management faculty collaborate with researchers in the Center for Urban Transportation Research in the College of Engineering to undertake funded research directed at addressing the challenges of logistics-led economic development in Florida. The inaugural statewide gathering of supply industry stakeholders in February 2019 was a direct response to research findings conducted by USF researchers (Pinjari et al., 2015).

**Data sources:**


Florida Department of Transportation (2010). 2060 Florida Transportation Plan.

Florida Department of Transportation (2013). *Florida Freight Mobility and Trade Plan Policy Element.*


**B. Demand:** Describe data that support the assumption that students will enroll in the proposed program. Include descriptions of surveys or other communications with
prospective students.

Our experience at USF with enrollment in graduate supply chain courses provides evidence for student demand. Since 2014, USF has offered a Supply Chain Management concentration in the Masters in Business Administration (MBA). The 15-hour concentration comprises three courses (9 hours) in logistics and supply chain management supplemented by two electives (6 hours) drawn from information systems, management, and engineering. While we do not actively recruit students to the concentration, fourteen students are currently enrolled in the MBA SCM concentration. The three logistics and supply chain management courses consistently fill, enrolling up to 35 students per course each semester. Students are drawn from those pursuing the SCM concentration as well as students from the Patel College of Global Sustainability and the College of Engineering, who enroll in the courses as electives.

C. If substantially similar programs (generally at the four-digit CIP Code or 60 percent similar in core courses), either private or public exist in the state, identify the institution(s) and geographic location(s). Summarize the outcome(s) of communication with such programs with regard to the potential impact on their enrollment and opportunities for possible collaboration (instruction and research). In Appendix C, provide data that support the need for an additional program.

<table>
<thead>
<tr>
<th>Institution Name</th>
<th>Public/Private</th>
<th>Location Program is Being Offered</th>
<th>CIP Code</th>
<th>Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida A&amp;M University</td>
<td>Public</td>
<td>Tallahassee</td>
<td>52.0203</td>
<td>MS/Supply Chain Management</td>
</tr>
<tr>
<td>Florida International University</td>
<td>Public</td>
<td>Miami</td>
<td>52.0203</td>
<td>MS/Logistics &amp; Supply Chain Management</td>
</tr>
<tr>
<td>University of North Florida</td>
<td>Public</td>
<td>Jacksonville</td>
<td>52.0203</td>
<td>MS/Transportation &amp; Supply Chain Management</td>
</tr>
</tbody>
</table>

Three Florida universities recently started new M.S. degree programs in the 52.0203 CIP: Florida A&M University, Florida International University, and University of North Florida. Information about each program, consideration of the potential impact on enrollments, and potential for collaboration were discussed in telephone conversations with each of the program directors: FAMU – Dr. Eisenhower Etienne; FIU – Professor Gregory Maloney; UNF – Dr. Robert Frankel. Data to support the need for an additional program are provided in Appendix C.

Program information:

Florida A&M University introduced a full-time, 30-credit hour M.S. in Supply Chain Management in Fall 2018. The delivery format is face-to-face and online; the program takes two years to complete. No enrollment data is available for Fall 2018. FAMU is located in Tallahassee.

The program at Florida International University is a 30-credit hour M.S. in Logistics & Supply Chain Management introduced in Fall 2018. The ten-month program targets working professionals in the Miami area. The delivery format is face-to-face with classes offered on Saturdays. No enrollment data is available for Fall 2018.

The University of North Florida will introduce a full-time 32-credit hour M.S. in Transportation & Supply Chain Management in Fall 2019. This degree is offered in a face-to-face and online format and takes two years to complete. Building on UNF’s successful undergraduate
program in transportation and logistics, coursework in the M.S. program focuses on transportation and logistics. The primary target market for this program will be working professionals in the Jacksonville area. Initial enrollment in the program is targeted at 25 students.

Impact on enrollments

All three program directors agreed that the USF M.S./SCM will have no impact on their enrollments due to the distinctive structure and target market of the USF M.S./SCM program. There is very little overlap in the target markets due to geographic differences (i.e., Tallahassee, Miami, and Jacksonville versus Central Florida), differences in missions among the universities (e.g., HBCU at FAMU, HSI at FIU), and differences in the focus of the programs (e.g., transportation and logistics versus global supply chain management at USF).

Potential Collaboration

The program directors discussed several opportunities for collaboration to support workforce development for the supply chain industry in Florida. The first opportunity for collaboration was participation in the inaugural Florida Supply Chain Summit in Orlando in February 2019, hosted by USF (http://floridasupplychainsummit.com). This event brought together 300 representatives from companies in Florida’s supply chain industry and representatives from industry associations, government agencies, and higher education. The director of the UNF program was a member of the planning team for the Summit.

The second key area for collaboration will be the opportunity to share information about best practices as we further develop our curricula across the institutions to serve workforce development in the state of Florida. For example, we can share relevant case studies, video content, information about potential guest speakers, and opportunities for field trips.

Finally, we will be able to collaborate on serving the needs of Florida’s supply chain industry by sharing information about position openings as well as working together on research projects. For example, collaboration across the programs can extend the reach for potential business engagement in student capstone projects.

D. Use Table 1 in Appendix A (1-A for undergraduate and 1-B for graduate) to categorize projected student headcount (HC) and Full Time Equivalents (FTE) according to primary sources. Generally undergraduate FTE will be calculated as 30 credit hours per year and graduate FTE will be calculated as 24 credit hours per year. Describe the rationale underlying enrollment projections. If students within the institution are expected to change majors to enroll in the proposed program at its inception, describe the shifts from disciplines that will likely occur.

The USF M.S./SCM is a cohort-based program. As displayed in Table 1-B, we anticipate enrolling 25 students (HC) each year in the first two years as we launch the program. Following this start-up period, we will admit two cohorts annually for a total enrollment of 50 students (HC). Using the formula of 24 credit hours per year to calculate FTE, enrollments will be 18 FTE for the first two years followed by 35 FTE for subsequent years. We do not anticipate students who are currently enrolled at USF will enroll in this program.

E. Indicate what steps will be taken to achieve a diverse student body in this program. If the proposed program substantially duplicates a program at FAMU or FIU, provide, (in consultation with the affected university), an analysis of how the program might have an impact upon that university’s ability to attract students of races different from that which is predominant on their campus in the subject program. The university’s Equal
USF is committed to engaging underrepresented and minority students in our programs. We strongly value equal access to education, ethical development, and all aspects of diversity (cultural, religious, race and ethnicity, socio-economic, linguistic, gender, sexual orientation, etc.). These shared institutional values provide a supportive environment to foster interaction and engagement among students who will shape their organizations’ business interactions and transactions with diverse audiences.

We expect the diversity of students enrolled in the M.S./SCM will mirror the diversity of companies in Florida’s supply chain industry. According to a recent (2015) joint report by the U.S. Departments of Education, Transportation and Labor (in conjunction with industry stakeholders), women are highly under-represented in the supply chain industry. Additionally, African-Americans and Hispanics are under-represented in jobs that generally require higher skills, pay better wages, and provide more career ladder opportunities. This situation provides an opportunity for the USF M.S./SCM to have a positive impact on diversity in the industry by providing greater access to graduate education underrepresented groups.

To ensure the desired outcome for student diversity, we will work with employers to secure recommendations for students in under-represented groups. Outreach approaches will also include collaboration with Florida military operations (e.g., SOCOM, MacDill Air Force Base). Members of our military often work in logistics and supply chain management and have the need for advanced training.

Conversations with the directors of the FAMU and FIU programs indicate the new M.S./SCM at USF is targeting a significantly different market and will have no impact on their ability to attract students of from races different from those that are predominant on their campuses.

III. Budget

A. Use Table 2 in Appendix A to display projected costs and associated funding sources for Year 1 and Year 5 of program operation. Use Table 3 in Appendix A to show how existing Education & General funds will be shifted to support the new program in Year 1. In narrative form, summarize the contents of both tables, identifying the source of both current and new resources to be devoted to the proposed program. (Data for Year 1 and Year 5 reflect snapshots in time rather than cumulative costs.)

Tables 2 and 3 are provided in Appendix A. Costs in Years 1 – 5 reflect the reallocation of faculty effort for existing faculty who currently teach in the current graduate Supply Chain Management concentration to the M.S./SCM program. The budget assumes a 2% increase in salary and fringe benefits across the five-year projection for the courses taught in Spring term; summer term salaries are capped at $12,500 plus fringe benefits per 3 credit hour course.

No new faculty lines are requested. One faculty member, Dr. Davis, will be resuming a full teaching load in Fall 2019 when she completes her term as Chair of the Marketing Department and will devote most of her time to the M.S./SCM. All faculty are currently employed by USF and are assigned to office space. Office support, office supplies and services, and travel funding are supported by E&G funds allocated to the Department of Marketing. No scholarships or graduate assistants are required to support the program.

B. Please explain whether the university intends to operate the program through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-
level tuition. Provide a rationale for doing so and a timeline for seeking Board of Governors’ approval, if appropriate. Please include the expected rate of tuition that the university plans to charge for this program and use this amount when calculating cost entries in Table 2.

Not applicable. USF does not intend to offer the program through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-level tuition.

C. If other programs will be impacted by a reallocation of resources for the proposed program, identify the impacted programs and provide a justification for reallocating resources. Specifically address the potential negative impacts that implementation of the proposed program will have on related undergraduate programs (i.e., shift in faculty effort, reallocation of instructional resources, reduced enrollment rates, greater use of adjunct faculty and teaching assistants). Explain what steps will be taken to mitigate any such impacts. Also, discuss the potential positive impacts that the proposed program might have on related undergraduate programs (i.e., increased undergraduate research opportunities, improved quality of instruction associated with cutting-edge research, improved labs and library resources).

The faculty who will teach in the M.S./SCM program are members of the Department of Marketing that houses the current graduate supply chain management concentration. The Supply Chain Management concentration will be discontinued when the M.S./SCM is offered.

In regard to potential positive impacts associated with the proposed program, the target market for this program (i.e., working professionals) will strengthen USF ties with companies in the supply chain industry. Faculty who supervise the required capstone projects could gain access to companies in support of their research, boosting their research productivity.

D. Describe other potential impacts on related programs or departments (e.g., increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the proposed major).

Two of the three courses offered in the summer term will be taught by faculty from other program areas. The Leadership/Management Concepts course is taught by a faculty member in the Sport & Entertainment Management program, which is also part of the Department of Marketing. The Risk Management and Legal Issues course is taught by a member of the Lynn Pippenger School of Accountancy. The faculty and program directors concur that teaching these summer courses will not affect their ability to serve their own programs.

E. Describe what steps have been taken to obtain information regarding resources (financial and in-kind) available outside the institution (businesses, industrial organizations, governmental entities, etc.). Describe the external resources that appear to be available to support the proposed program.

Since 2014, five businesses have contributed $207,000 in cash gifts plus $342,760 in-kind gifts (i.e., software licenses) to the Center for Supply Chain Management & Sustainability. On April 8, 2019, a gift of $5 million to the Center was announced. Funds are used to support scholarships, business engagement activities, research projects, and faculty development for the USF supply chain management program. As noted elsewhere in this proposal, the supply chain management faculty have been successful in securing external research funding from state and federal granting agencies.

IV. Projected Benefit of the Program to the University, Local Community, and State

Use information from Tables 1 and 2 in Appendix A, and the supporting narrative for “Need and Demand” to prepare a concise statement that describes the projected benefit to the university, local community, and the state if the program is implemented. The projected
benefits can be both quantitative and qualitative in nature, but there needs to be a clear distinction made between the two in the narrative.

The projected benefits of the M.S./SCM are summarized as follows:

**University:** The M.S./SCM will benefit the university by positioning USF as the leader in supply chain management education and expertise in the state of Florida. The degree will enhance business engagement by providing stronger relationships with a growing industry sector. The addition of the degree is a critical element for attracting ongoing external funding from industry and government agencies.

Appendix A shows that the M.S./SCM will add up to 50 new STEM degrees awarded by USF.

**Local Community:** The M.S./SCM will benefit the Tampa Bay business community by meeting the need of area businesses to provide advanced training for managers in supply chain management positions. The proposal for the USF M.S./SCM emanated from requests by Tampa Bay business partners who serve on the USF Center for Supply Chain Management & Sustainability’s advisory board. Area companies requested that USF offer a master’s degree in supply chain management to allow greater depth in the coursework not afforded by the current M.B.A./SCM concentration.

As shown in Table 1 in Appendix C, Florida expects nearly 12% growth in logistics managers by 2026. The M.S./SCM will allow Tampa Bay companies to retain supply chain managers by allowing them to continue full-time employment as they seek to advance their skills.

**State:** The M.S./SCM will benefit the state of Florida by providing a program for advanced training for working professionals in the supply chain industry. As noted previously, jobs in supply chain management are in increasing demand in Florida. This program will add to the number of STEM graduates.

The Florida Department of Economic Opportunity reports that the Trade and Transportation sector (excluding Utilities) accounts for over 1.7 million jobs in Florida (see Appendix C). This number is expected to grow by nearly 125,000 jobs from 2018 to 2026, an increase of 7.5%. In 2018, there were 51,027 job vacancies in Florida in this sector; that is, 3% of the available jobs were not filled.

V. Access and Articulation – Bachelor’s Degrees Only

A. If the total number of credit hours to earn a degree exceeds 120, provide a justification for an exception to the policy of a 120 maximum and submit a separate request to the Board of Governors for an exception along with notification of the program’s approval. (See criteria in Board of Governors Regulation 6C-8.014)

Not applicable.

B. List program prerequisites and provide assurance that they are the same as the approved common prerequisites for other such degree programs within the SUS (see link to the Common Prerequisite Manual on the resource page for new program proposal). The courses in the Common Prerequisite Counseling Manual are intended to be those that are required of both native and transfer students prior to entrance to the major program, not simply lower-level courses that are required prior to graduation. The common prerequisites and substitute courses are mandatory for all institution programs listed, and must be approved by the Articulation Coordinating Committee (ACC). This requirement includes those programs designated as “limited access.”

If the proposed prerequisites are not listed in the Manual, provide a rationale for a request for exception to the policy of common prerequisites. NOTE: Typically, all lower-division courses required for admission into the major will be considered prerequisites. The curriculum can require lower-division courses that are not prerequisites for admission into the major, as long as those courses are built into the curriculum for the upper-level 60 credit
hours. If there are already common prerequisites for other degree programs with the same proposed CIP, every effort must be made to utilize the previously approved prerequisites instead of recommending an additional “track” of prerequisites for that CIP. Additional tracks may not be approved by the ACC, thereby holding up the full approval of the degree program. Programs will not be entered into the State University System Inventory until any exceptions to the approved common prerequisites are approved by the ACC.

Not applicable.

C. If the university intends to seek formal Limited Access status for the proposed program, provide a rationale that includes an analysis of diversity issues with respect to such a designation. Explain how the university will ensure that Florida College System transfer students are not disadvantaged by the Limited Access status. NOTE: The policy and criteria for Limited Access are identified in Board of Governors Regulation 6C-8.013. Submit the Limited Access Program Request form along with this document.

Not applicable.

D. If the proposed program is an AS-to-BS capstone, ensure that it adheres to the guidelines approved by the Articulation Coordinating Committee for such programs, as set forth in Rule 6A-10.024 (see link to the Statewide Articulation Manual on the resource page for new program proposal). List the prerequisites, if any, including the specific AS degrees which may transfer into the program.

Not applicable.

INSTITUTIONAL READINESS

VI. Related Institutional Mission and Strength

A. Describe how the goals of the proposed program relates to the institutional mission statement as contained in the SUS Strategic Plan and the University Strategic Plan (see link to the SUS Strategic Plan on the resource page for new program proposal).

The M.S./SCM is aligned with USF System, USF/Tampa, and Muma College of Business (MCOB) strategic plans. All of these plans focus on student success, business engagement and global literacy.

Specifically, the M.S./SCM promotes student success by equipping students with the knowledge and skills required for advancement in careers in high demand in Florida and the nation in the area of global supply chain management. The M.S./SCM supports the institutional mission by ensuring the availability of well-paying jobs in the discipline for graduates.

As a discipline, the field of supply chain management is highly engaged with industry to ensure the development of a talent pool to support the growing demand for supply chain professionals and to keep abreast of ever-changing technological and regulatory changes. The program supports the institutional mission of business engagement by supporting Florida’s economic development through strengthening the talent pool.

By its very nature, supply chain management is a global discipline. Graduates of the USF M.S./SCM must understand relationships among suppliers, producers and customers located around the world.

B. Describe how the proposed program specifically relates to existing institutional strengths, such as programs of emphasis, other academic programs, and/or institutes and centers.

The Center for Analytics and Creativity (CAC) in the Muma College of Business provides significant resources for the proposed M.S./SCM. The CAC hosts the annual Florida Business Analytics Forum with guest speakers related to analytics, including supply chain analytics. For example, the 2018 Forum
focused on blockchain technology and machine learning, two technology advances at the forefront of shaping supply chain design. As described elsewhere, faculty currently collaborate on supply chain research with the Center for Urban Transportation Research in the USF College of Engineering.

C. Provide a narrative of the planning process leading up to submission of this proposal. Include a chronology in table format of the activities, listing both university personnel directly involved and external individuals who participated in planning. Provide a timetable of events necessary for the implementation of the proposed program.

The planning process for the M.S./SCM began with a request from executives who are members of the advisory board of the Center for Supply Chain Management & Sustainability. Subsequently, SCM faculty took up the request to consider the resources needed to offer an M.S./SCM. A working group of volunteers drawn from the advisory board then engaged with the SCM faculty to examine similar programs and develop a list of knowledge and skills for the M.S./SCM. This information was then conveyed to the full advisory board for discussion and feedback. The SCM faculty used this feedback to develop curricular goals, learning outcomes, and proposed courses for the M.S./SCM.

The M.S./SCM pre-proposal was reviewed and approved by appropriate governing bodies at the department, college, university, and state levels in 2017-2018. The full proposal was developed for review and approval in AY 2018-2019.

Planning Process

<table>
<thead>
<tr>
<th>Date</th>
<th>Participants</th>
<th>Planning Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2016</td>
<td>CSCMS Advisory Board</td>
<td>Review of SCM program resulted in request for a MS in Supply Chain Management</td>
</tr>
<tr>
<td>June 2016</td>
<td>Donna Davis with SCM faculty</td>
<td>Discussion of feasibility of M.S./SCM and plan for engaging Advisory Board members; draft curricular goals and learning outcomes</td>
</tr>
<tr>
<td>October 2016</td>
<td>Curriculum Working Group (Advisory Board members) with SCM faculty</td>
<td>Discussion of business needs; review of similar programs; focus on global supply chain management; revise curricular goals and learning outcomes</td>
</tr>
<tr>
<td>June 2017</td>
<td>CSCMS Advisory Board with SCM faculty</td>
<td>Presentation of curricular goals and learning outcomes to Advisory Board for discussion and feedback</td>
</tr>
<tr>
<td>September/October 2017</td>
<td>SCM faculty</td>
<td>Develop M.S./SCM pre-proposal</td>
</tr>
<tr>
<td>June 2018</td>
<td>SCM faculty and CSCMS business partners</td>
<td>Review of courses and curriculum map for full proposal</td>
</tr>
</tbody>
</table>
Events Leading to Implementation

<table>
<thead>
<tr>
<th>Date</th>
<th>Implementation Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2017</td>
<td>Pre-Proposal (PP) approved by Department of Marketing</td>
</tr>
<tr>
<td>December 2017</td>
<td>PP approved by Graduate Program Committee/Muma College of Business</td>
</tr>
<tr>
<td>January 2018</td>
<td>PP approved by USF Graduate Faculty Council</td>
</tr>
<tr>
<td>January 2018</td>
<td>PP approved by Academic Program Advisory Council</td>
</tr>
<tr>
<td>February 2018</td>
<td>PP approved by SUS Council of Academic Vice Presidents</td>
</tr>
<tr>
<td>May 2018</td>
<td>PP approved by ACE Committee</td>
</tr>
<tr>
<td>June 2018</td>
<td>PP approved by BOT for inclusion on USF Tampa Accountability Plan</td>
</tr>
<tr>
<td>June 2018</td>
<td>PP approved by BOG for inclusion on USF Tampa Accountability Plan</td>
</tr>
<tr>
<td>September 2018</td>
<td>New Program Full Proposal (NPFP) approved by Department of Marketing</td>
</tr>
<tr>
<td>October 2018</td>
<td>NPFP approved by Graduate Program Committee, Muma College of Business</td>
</tr>
<tr>
<td>October 2018</td>
<td>NPFP approved by Muma College of Business</td>
</tr>
<tr>
<td>March 2019</td>
<td>NPFP submitted to USF Graduate Faculty Council</td>
</tr>
<tr>
<td>April 2019</td>
<td>NPFP submitted to APAC</td>
</tr>
<tr>
<td>May 2018</td>
<td>NPFP submitted to ACE Committee</td>
</tr>
<tr>
<td>June 2019</td>
<td>NPFP submitted to BOT</td>
</tr>
<tr>
<td>June 2019</td>
<td>NPFP submitted for BOG for staff review</td>
</tr>
<tr>
<td>After addition to BOG program inventory</td>
<td>Promote M.S./SCM to students Add M.S./SCM to USF graduate catalog</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>Start degree program after receipt of approval letter from the BOG</td>
</tr>
</tbody>
</table>

VII. Program Quality Indicators - Reviews and Accreditation

Identify program reviews, accreditation visits, or internal reviews for any university degree programs related to the proposed program, especially any within the same academic unit. List all recommendations and summarize the institution's progress in implementing the recommendations.

Programs in the home academic unit for this proposal, the Department of Marketing, are reviewed in the accreditation process by AACSB as part of the Muma College of Business accreditation process. The Muma College of Business was successfully reaccredited by AACSB in 2018. The AACSB reaccreditation process takes place every five years. The M.S./SCM will be reviewed in the next reaccreditation cycle which will begin with an internal program review in AY 2021-2022 in preparation for a site visit in AY 2022-2023.

VIII. Curriculum

A. Describe the specific expected student learning outcomes associated with the proposed program. If a bachelor's degree program, include a web link to the Academic Learning Compact or include the document itself as an appendix.

Learning Outcomes:

Graduates of the M.S./SCM will demonstrate the ability to:

1. Conduct advanced analyses used in day-to-day operations of global supply chains including inventory management, transportation management, warehouse management, and network design;
2. Explain how technology is used in supply chain management from fundamental use to innovative applications;
3. Demonstrate the ability to apply core analytical techniques in modeling the physical, information, and financial flows in global supply chains;
4. Effectively present information and analyses in oral presentations and discussions, and;
5. Communicate analyses and recommendations in written form.

B. Describe the admission standards and graduation requirements for the program.

Minimum requirements for admission to the USF M.S./SCM include:
- A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
- Official transcripts from all institutions attended.
- Resume, a 1-2 page personal statement of purpose, and 2 letters of recommendation.
- Minimum of three years of managerial work experience in the discipline.

Graduation requirements:
- Completion of 32 credit hours with a minimum overall GPA of 3.0.

C. Describe the curricular framework for the proposed program, including number of credit hours and composition of required core courses, restricted electives, unrestricted electives, thesis requirements, and dissertation requirements. Identify the total numbers of semester credit hours for the degree.

The M.S./SCM is a 32-credit hour program. Students will earn a graduate certificate in supply chain management upon completion of the initial 15 credit hours. Seventeen credit hours beyond the initial 15-credit hours are offered in a hybrid format (30% face-to-face and 70% online) to allow students to continue working full-time while completing the M.S./SCM at USF. The capstone course is a field-based research project designed by the student in consultation with a Muma College of Business faculty member and the student’s employer/supervisor.

Curricular Framework

SCM 6006 Supply Chain Management (3 credits) *
SCM 6200 Logistics & Physical Distribution Management (3 credits) *
ISM 6156 Enterprise Resource Planning & Business Process Management (3 credits) *
ISM 6436 Operations and Supply Chain Processes (3 credits) *
ISM 6527 Lean Six Sigma (3 credits) *
SCM 6169 Sustainable Supply Chain Management & Reverse Logistics (3 credits – new proposal)
SCM 6206 Logistics Systems & Analytics (3 credits)
SCM 6939 Seminar in Supply Chain Management (3 credits – new proposal)
BUL 5842 Risk Management and Legal Issues (3 credits)
MAN 6147 Leadership Management/Concepts (2 credits)
SCM 6919 Supply Chain Management Capstone Project (3 credits – new proposal)

* Courses for 15-credit-hour graduate certificate in supply chain management
D. Provide a sequenced course of study for all majors, concentrations, or areas of emphasis within the proposed program.

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>Enterprise Resource Planning &amp; Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td>Operations and Supply Chain Processes</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>Logistics &amp; Physical Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>Lean Six Sigma</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>Sustainable Supply Chain Management &amp; Reverse Logistics</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>Logistics Systems &amp; Analytics</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>Seminar in Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td>Risk Management and Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td>Leadership Management/Concepts</td>
<td>2</td>
</tr>
<tr>
<td>Summer</td>
<td>Supply Chain Management Capstone Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours 32**

E. Provide a one- or two-sentence description of each required or elective course.

**SCM 6006 Supply Chain Management**: Overview of key supply chain processes and functions, including logistics, marketing, finance, operations, and procurement, and the implications of supply chain management for creating value for customers and other supply chain members.

**SCM 6200 Logistics & Physical Distribution Management**: A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively.

**ISM 6156 Enterprise Resource Planning & Business Process Management**: This course introduces students to business processes management and enterprise resource planning systems, and their use and implementation in key functional areas of todayâ€™s global businesses.

**ISM 6436 Operations and Supply Chain Processes**: This course provides an overview of several aspects of operations management, a discipline in business concerned with managing the transformation of inputs into outputs.

**ISM 6527 Lean Six Sigma**: In this course students gain experience with process improvement from a Lean and Six Sigma perspective. The course shows Lean as a management philosophy to eliminate waste, and Six Sigma as tools and ideas to reduce variation and improving quality.

**SCM 6169 Sustainable Supply Chain Management and Reverse Logistics (new proposal)**: This course emphasizes the managerial aspects of reverse logistics and sustainability in supply chain management. The course provides students with the knowledge necessary to understand the principles and important issues relating to the reverse logistics process and corporate sustainability efforts with respect to the supply chain.

**SCM 6206 Logistics Systems & Analytics**: Provides an overview of the main types of supply chain software including ERP, WMS, and TMS systems. Describes the main functionality, how they are used, as
well as the software selection process and how software upgrade and implementation projects should be organized and managed.

**SCM 6939 Seminar in Supply Chain Management (new proposal):** A combination of lectures and cases and/or article(s) related to a current challenges in supply chain management. Led by faculty, researchers in the USF Center for Supply Chain Management & Sustainability, and invited guest speakers from industry.

**BUL 5842 Risk Management and Legal Compliance:** This course is designed for nonaccounting students who need to understand, monitor and control risks. The content of this course spans corporate governance, risk strategy and legal/regulatory compliance including analysis of significant laws/regulations.

**MAN 6147 Leadership/Management Concepts:** Provides a foundation for the study of processes of leadership in organization and society. Presents an overview of various concepts of management, such as the personal values of leaders and leadership in an organization.

**SCM 6919 Supply Chain Management Capstone Project (new proposal):** Students conduct research under the direction of a faculty member on a supply chain problem, typically conducted at the student’s place of employment. Projects may include reports of site visits, in-person interviews and quantitative analysis of data provided by the student’s employer or a sponsoring company.

**F.** For degree programs in the science and technology disciplines, discuss how industry-driven competencies were identified and incorporated into the curriculum and indicate whether any industry advisory council exists to provide input for curriculum development and student assessment.

As noted previously, the curriculum for this program was developed with the guidance of the advisory board of senior supply chain managers and executives for the Center for Supply Chain Management & Sustainability (CSCMS). A working group of volunteers drawn from the advisory board developed a list of knowledge and skills that were then mapped into the courses. Technical skills -- including introduction to software applications and analytical skills -- play a critical role in global supply chain management. In addition, the working group, as well as the full advisory board, emphasized the need for the development of critical thinking and leadership skills.

The business partners who comprise the advisory board of the CSCMS meet annually. This group will continue to provide guidance and oversight on the overall quality and relevance of the M.S./SCM program. Feedback about student performance will be solicited from employers in the Supply Chain Management Capstone Project course. In addition, this course will serve to collect data for the Assurance of Learning for the M.S./SCM program.

**G.** For all programs, list the specialized accreditation agencies and learned societies that would be concerned with the proposed program. Will the university seek accreditation for the program if it is available? If not, why? Provide a brief timeline for seeking accreditation, if appropriate.

The Muma College of Business was successfully reaccredited by AACSB in 2018. The AACSB reaccreditation process takes place every five years. All programs are reviewed in the AACSB reaccreditation process. The M.S./SCM will be reviewed in the next reaccreditation cycle which will begin with an internal program review in AY 2021-2022 in preparation for a site visit in AY 2022-2023.

**H.** For doctoral programs, list the accreditation agencies and learned societies that would be concerned with corresponding bachelor’s or master’s programs associated with the proposed program. Are the programs accredited? If not, why?

Not applicable.

**I.** Briefly describe the anticipated delivery system for the proposed program (e.g., traditional
delivery on main campus; traditional delivery at branch campuses or centers; or nontraditional delivery such as distance or distributed learning, self-paced instruction, or external degree programs). If the proposed delivery system will require specialized services or greater than normal financial support, include projected costs in Table 2 in Appendix A. Provide a narrative describing the feasibility of delivering the proposed program through collaboration with other universities, both public and private. Cite specific queries made of other institutions with respect to shared courses, distance/distributed learning technologies, and joint-use facilities for research or internships.

The M.S./SCM courses will be delivered in either online or hybrid format that combines face-to-face with online instruction. Courses will be developed with the support of Innovative Education experts. No special facilities or extraordinary financial support are required for the degree.

IX. Faculty Participation

A. Use Table 4 in Appendix A to identify existing and anticipated full-time (not visiting or adjunct) faculty who will participate in the proposed program through Year 5. Include (a) faculty code associated with the source of funding for the position; (b) name; (c) highest degree held; (d) academic discipline or specialization; (e) contract status (tenure, tenure-earning, or multi-year annual [MYA]); (f) contract length in months; and (g) percent of annual effort that will be directed toward the proposed program (instruction, advising, supervising internships and practica, and supervising thesis or dissertation hours).

Table 4 displays the faculty who will deliver the courses in the M.S./SCM. All faculty are currently employed by USF.

Dr. Donna Davis, Professor, Marketing & Supply Chain Management
Dr. James Stock, Professor, Marketing & Supply Chain Management
Dr. Rob Hooker, Associate Professor, Marketing & Supply Chain Management

B. Use Table 2 in Appendix A to display the costs and associated funding resources for existing and anticipated full-time faculty (as identified in Table 4 in Appendix A). Costs for visiting and adjunct faculty should be included in the category of Other Personnel Services (OPS). Provide a narrative summarizing projected costs and funding sources.

The costs associated with the M.S./SCM program are exclusively related to the faculty effort devoted to teaching the courses in the program. These faculty members are currently teaching the courses in the graduate supply chain management concentration. The courses taught outside the department will be taught in summer semester or in a one-week bootcamp format and, thus, will not affect teaching loads for the regular semester. The chairs of the departments involved and faculty who teach those courses have been consulted to ensure there are no conflicts with existing commitments. Faculty salaries are completely funded by E&G funds.

C. Provide in the appendices the abbreviated curriculum vitae (CV) for each existing faculty member (do not include information for visiting or adjunct faculty).

See Appendix D.

D. Provide evidence that the academic unit(s) associated with this new degree have been productive in teaching, research, and service. Such evidence may include trends over time for average course load, FTE productivity, student HC in major or service courses, degrees granted, external funding attracted, as well as qualitative indicators of excellence.

The M.S./SCM will be hosted in the Department of Marketing in the Muma College of Business. Faculty associated with the new degree are members of the Department of Marketing. The following statistics are for the Department of Marketing.
Research productivity is evidenced in the steady upward trend for scholarly peer-reviewed publications along with the substantial external research funding. As noted elsewhere in this proposal, the SCM faculty are specifically involved in research collaborations that attract external funding from national and state agencies including USDA and FDOT.

The faculty who currently teach the supply chain management courses are heavily involved in service at all levels. Their service on departmental, college, university, and disciplinary committees and activities are noted on their CV’s in Appendix D. All are active members of the Council for Supply Chain Management Professionals (CSCMP), the global association for supply chain managers and educators.

Other qualitative indicators of excellence include recognition of SCM faculty at the university and national level. Dr. James Stock is a Distinguished University Professor, Fulbright Core Scholar, and member of the American Association for the Advancement of Science. Dr. Rob Hooker is a Fulbright Specialist in the area of supply chain management.

X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university’s students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Part I – Overview of USF Libraries, Mission, and Program/Discipline Strengths

The University of South Florida’s Libraries consist of USF’s main research library, located on the Tampa Campus and the Hinks and Elaine Shimberg Health Sciences Library, the Nelson Poynter Memorial Library, USF St. Petersburg campus; and the Jane Bancroft Cook Library, which is a joint-use facility shared with New College of Florida and the USF Sarasota-Manatee campus. The USF Libraries serve as the nexus for the teaching, learning, and research for the faculty and students at the University of South Florida. Together, the USF Libraries provide access to more than 2 million volumes and an extensive collection of electronic resources including over 58,975 e-journal subscriptions and 927 aggregator databases, 580,000 e-books, and 826,000 digital images. In addition, students have access to over 60,000 audio/visual materials including videos, CDs, and DVDs.

In addition to extensive electronic and print resources, the USF Tampa Library offer unique access to primary research materials through Special & Digital Collections. Specializations include: Florida Studies Center Collection, the Children and Young Adult Literature Collection, the Science Fiction & Fantasy Collection, the Holocaust and Genocide Studies Center Collection, the Arts Collection, the Literature & Book Arts Collection, the University Archives, and Digital Collections, which provide online access to many materials from Special Collections, as well as collections digitized through partnerships with other libraries and repositories.

The library endeavors to develop and maintain a collection that will satisfy the needs for resources that support the undergraduate and graduate curriculum for the Supply Chain Management program in the Muma College of Business Marketing Department as well as serve the more specialized demands from graduate students and faculty for more advanced research materials.
Part II - USF Libraries’ Collections
MONOGRAPHS (Print and Ebooks)

The numbers of both print and electronic monographs below were derived from searching the library’s catalog for book titles by Library of Congress Subject Headings relevant to the Supply Chain Management program.

<table>
<thead>
<tr>
<th>Library of Congress Subject Heading</th>
<th>Call Number</th>
<th>Print</th>
<th>Electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Logistics</td>
<td>HD38.5</td>
<td>115</td>
<td>376</td>
</tr>
<tr>
<td>Inventory Control</td>
<td>TS160-TS163</td>
<td>67</td>
<td>70</td>
</tr>
<tr>
<td>Industrial Management</td>
<td>HD28-HD70</td>
<td>9861</td>
<td>8093</td>
</tr>
<tr>
<td>Industrial Procurement</td>
<td>HD39.5</td>
<td>42</td>
<td>49</td>
</tr>
<tr>
<td>Management Science</td>
<td>T55.4-T57.97</td>
<td>793</td>
<td>761</td>
</tr>
<tr>
<td>Marketing Management</td>
<td>HF5415.13</td>
<td>1233</td>
<td>283</td>
</tr>
<tr>
<td>Marketing Channels</td>
<td>HF5415.129</td>
<td>23</td>
<td>5</td>
</tr>
<tr>
<td>Materials Management</td>
<td>TS161</td>
<td>28</td>
<td>32</td>
</tr>
<tr>
<td>Operations Research</td>
<td>T57.6-T57.97</td>
<td>498</td>
<td>451</td>
</tr>
<tr>
<td>Physical Distribution of Goods</td>
<td>HF5415.6</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Shipment of Goods</td>
<td>HF5761-HF5780</td>
<td>33</td>
<td>11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12,699</strong></td>
<td><strong>10,136</strong></td>
<td></td>
</tr>
</tbody>
</table>

Additional ebooks without Library of Congress Subject Headings

- 1,825 (Book titles with “Supply Chain Management” in the title, abstract, or author fields)
  - 357 (Ebook titles containing “Supply Chain Management”)

Total Number of Monographs

- Print = 12,699
- Electronic = 11,961

B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

No additional resources will be required. The current library resources are sufficient for the program.

C. Describe classroom, teaching laboratory, research laboratory, office, and other types of space that are necessary and currently available to implement the proposed program through Year 5.

Classroom space and office space are the only resources needed for the program. The M.S./SCM will add three classes that will need to be assigned space for the one week residency each semester; current space allocation is sufficient to accommodate these courses. All faculty are in currently assigned office space; hence, no new office space is needed.

D. Describe additional classroom, teaching laboratory, research laboratory, office, and other space needed to implement and/or maintain the proposed program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space in Table 2 in Appendix A. Do not include costs for new construction because that information should be provided in response to X (E) below.

No additional classroom or office space is required. Existing classroom and office space is sufficient.

E. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university’s fixed capital outlay priority list. Table 2 in Appendix A includes only Instruction and Research (I&R) costs. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase as a result of the
program, describe and estimate those expenses in narrative form below. It is expected that high enrollment programs in particular would necessitate increased costs in non-I&R activities.

No capital expenditure for instructional or research space is required.

F. Describe specialized equipment that is currently available to implement the proposed program through Year 5. Focus primarily on instructional and research requirements.

No specialized equipment is required to implement or sustain the program.

G. Describe additional specialized equipment that will be needed to implement and/or sustain the proposed program through Year 5. Include projected costs of additional equipment in Table 2 in Appendix A.

No specialized equipment is required to implement or sustain the program.

H. Describe any additional special categories of resources needed to implement the program through Year 5 (access to proprietary research facilities, specialized services, extended travel, etc.). Include projected costs of special resources in Table 2 in Appendix A.

No additional special categories of resources are needed to implement the program.

I. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5. Include the projected costs in Table 2 in Appendix A.

Students enrolled in this program will be employed full-time in the supply chain industry. We expect that most, if not all, students enrolled in this program will secure tuition remission support from their employers. No fellowships or graduate assistantships are planned.

J. Describe currently available sites for internship and practicum experiences, if appropriate to the program. Describe plans to seek additional sites in Years 1 through 5.

Students in this program are working professionals. Internships and practica are not necessary.
## APPENDIX A

### TABLE 1-B

**PROJECTED HEADCOUNT FROM POTENTIAL SOURCES**  
*(Graduate Degree Program)*

<table>
<thead>
<tr>
<th>Source of Students</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
</tr>
<tr>
<td>Individuals drawn from agencies/industries in your service area (e.g., older returning students)</td>
<td>25</td>
<td>17.71</td>
<td>25</td>
<td>17.71</td>
<td>50</td>
</tr>
<tr>
<td>Students who transfer from other graduate programs within the university**</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Individuals who have recently graduated from preceding degree programs at this university</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Individuals who graduated from preceding degree programs at other Florida public universities</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Individuals who graduated from preceding degree programs at non-public Florida institutions</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Additional in-state residents***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Additional out-of-state residents***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Additional foreign residents***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other (Explain)***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>25</td>
<td>17.7083333</td>
<td>25</td>
<td>17.7083333</td>
<td>50</td>
</tr>
</tbody>
</table>

* List projected annual headcount of students enrolled in the degree program. List projected yearly cumulative ENROLLMENTS instead of admissions.

** If numbers appear in this category, they should go DOWN in later years.

*** Do not include individuals counted in any PRIOR category in a given COLUMN.
APPENDIX A

TABLE 2

PROJECTED COSTS AND FUNDING SOURCES

<table>
<thead>
<tr>
<th>Instruction &amp; Research Costs (non-cumulative)</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reallocated Base* (E&amp;G)</td>
<td>$202,508</td>
<td>$215,739</td>
</tr>
<tr>
<td>Enrollment Growth (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>New Recurring (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>New Non-Recurring (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Contracts &amp; Grants (C&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Philanthropy Endowments</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Enterprise Auxiliary Funds</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Subtotal columns 1+…+7</strong></td>
<td>$202,508</td>
<td>$215,739</td>
</tr>
<tr>
<td>Continuing Base** (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>New Enrollment Growth (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other*** (E&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Contracts &amp; Grants (C&amp;G)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Philanthropy Endowments</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Enterprise Auxiliary Funds</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Subtotal columns 9+…+ 14</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Identify reallocation sources in Table 3.

**Includes recurring E&G funded costs ("reallocated base," "enrollment growth," and "new recurring") from Years 1-4 that continue into Year 5.

***Identify if non-recurring.

Faculty and Staff Summary

<table>
<thead>
<tr>
<th>Total Positions</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty (person-years)</td>
<td>0.56</td>
<td>0.56</td>
</tr>
<tr>
<td>A &amp; P (FTE)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>USPS (FTE)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Calculated Cost per Student FTE

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total E&amp;G Funding</td>
<td>$202,508</td>
<td>$215,739</td>
</tr>
<tr>
<td>Annual Student FTE</td>
<td>17,70833333</td>
<td>35,41666667</td>
</tr>
<tr>
<td>E&amp;G Cost per FTE</td>
<td>$11,436</td>
<td>$6,091</td>
</tr>
</tbody>
</table>
## APPENDIX A

### TABLE 3
ANTICIPATED REALLOCATION OF EDUCATION & GENERAL FUNDS*

<table>
<thead>
<tr>
<th>Program and/or E&amp;G account from which current funds will be reallocated during Year 1</th>
<th>Base before reallocation</th>
<th>Amount to be reallocated</th>
<th>Base after reallocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing: Existing Supply Chain Management Concentration that will be discontinued</td>
<td>305,903</td>
<td>202,508</td>
<td>103,395</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$305,903</strong></td>
<td><strong>$202,508</strong></td>
<td><strong>$103,395</strong></td>
</tr>
</tbody>
</table>

* If not reallocating funds, please submit a zeroed Table 3
### APPENDIX A

**TABLE 4**

**ANTICIPATED FACULTY PARTICIPATION**

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Faculty Name or “New Hire”</th>
<th>Highest Degree Held</th>
<th>Academic Discipline or Speciality</th>
<th>Rank</th>
<th>Contract Status</th>
<th>Initial Date for Participation in Program</th>
<th>Mos. Contract Year 1</th>
<th>FTE Year 1</th>
<th>% Effort for Prg. Year 1</th>
<th>PY Year 1</th>
<th>Mos. Contract Year 5</th>
<th>FTE Year 5</th>
<th>% Effort for Prg. Year 5</th>
<th>PY Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Donna Davis, Ph.D.</td>
<td></td>
<td>Supply Chain Management</td>
<td>Professor</td>
<td>Tenure</td>
<td>Spring 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
</tr>
<tr>
<td>A</td>
<td>Jim Stock, Ph.D.</td>
<td></td>
<td>Supply Chain Management</td>
<td>Professor</td>
<td>Tenure</td>
<td>Spring 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
</tr>
<tr>
<td>A</td>
<td>Rob Hooker, Ph.D.</td>
<td>Assoc. Prof.</td>
<td>Supply Chain Management</td>
<td></td>
<td>Tenure</td>
<td>Spring 2020</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
<td>9</td>
<td>0.75</td>
<td>0.25</td>
<td>0.19</td>
</tr>
<tr>
<td></td>
<td>Total Person-Years (PY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.56</td>
<td></td>
<td>0.56</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Source of Funding</th>
<th>PY Workload by Budget Classification</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Existing faculty on a regular line</td>
<td>Current Education &amp; General Revenue</td>
<td>0.56</td>
<td>0.56</td>
</tr>
<tr>
<td>B</td>
<td>New faculty to be hired on a vacant line</td>
<td>Current Education &amp; General Revenue</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>C</td>
<td>New faculty to be hired on a new line</td>
<td>New Education &amp; General Revenue</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>D</td>
<td>Existing faculty hired on contracts/grants</td>
<td>Contracts/Grants</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>E</td>
<td>New faculty to be hired on contracts/grants</td>
<td>Contracts/Grants</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Overall Totals for Year 1 | 0.56 | Year 5 | 0.56
APPENDIX B

Please include the signature of the Equal Opportunity Officer and the Library Director.

Signature of Equal Opportunity Officer   Date

Signature of Library Director   Date

This appendix was created to facilitate the collection of signatures in support of the proposal. Signatures in this section illustrate that the Equal Opportunity Officer has reviewed section II.E of the proposal and the Library Director has reviewed sections X.A and X.B.
APPENDIX C

Data related to the need for another degree in the state

Growth in the Trade, Transportation, and Utilities industry sector is the underlying force that drives demand for supply chain management professionals in the state of Florida and the nation. The Florida Department of Economic Opportunity reports that the Trade and Transportation sector (excluding Utilities) accounts for over 1.7 million jobs in Florida (see Table 1). This number is expected to grow by nearly 125,000 jobs from 2018 to 2026, an increase of 7.5%. In 2018, there were 51,027 job vacancies in Florida in this sector; that is, 3% of the available jobs were not filled.

The demand for Logisticians in Florida is estimated at 6,721 in 2018 (see Table 1). This number is expected to grow by 785 jobs to 7,506 by 2026, an increase of 11.7%.

The current Master’s level programs in Florida have not yet produced any graduates. Two were introduced in Fall 2018 and one will be introduced in Fall 2019. The USF M.S./SCM is designed specifically to meet the needs of Florida companies by allowing working professionals to continue working full time while they pursue their degrees.

A study by Burning Glass (2018) shows that the skills gap for the Transportation and Materials Handling sector is among the top five in the country, weighing in at a 13% shortage.

**Figure 1. Demand/Supply Ratio by Occupation**

[Graph showing demand/supply ratio by occupation]
### Table 1. JOBS BY INDUSTRY IN FLORIDA

**FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY**

<table>
<thead>
<tr>
<th>NAICS Code</th>
<th>NAICS Title</th>
<th>Employment</th>
<th></th>
<th></th>
<th>Percent Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Management Occupations - Logisticians</td>
<td>6,721</td>
<td>7,506</td>
<td>785</td>
<td>11.7</td>
</tr>
<tr>
<td></td>
<td>Trade and Transportation</td>
<td>1,724,908</td>
<td>1,849,680</td>
<td>124,772</td>
<td>7.5</td>
</tr>
<tr>
<td>42</td>
<td>Wholesale Trade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>423</td>
<td>Merchant Wholesalers, Durable Goods</td>
<td>179,802</td>
<td>192,468</td>
<td>12,666</td>
<td>7.0</td>
</tr>
<tr>
<td>424</td>
<td>Merchant Wholesalers, Nondurable Goods</td>
<td>128,256</td>
<td>136,896</td>
<td>8,640</td>
<td>6.7</td>
</tr>
<tr>
<td>425</td>
<td>Wholesale Electronic Markets and Agents and Brokers</td>
<td>43,936</td>
<td>47,473</td>
<td>3,537</td>
<td>8.1</td>
</tr>
<tr>
<td>44</td>
<td>Retail Trade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>441</td>
<td>Motor Vehicle and Parts Dealers</td>
<td>151,499</td>
<td>164,386</td>
<td>12,887</td>
<td>8.5</td>
</tr>
<tr>
<td>442</td>
<td>Furniture and Home Furnishings Stores</td>
<td>38,810</td>
<td>40,525</td>
<td>1,715</td>
<td>4.4</td>
</tr>
<tr>
<td>443</td>
<td>Electronics and Appliance Stores</td>
<td>40,827</td>
<td>42,561</td>
<td>1,734</td>
<td>4.3</td>
</tr>
<tr>
<td>444</td>
<td>Building Material and Garden Equipment and Supplies Dealers</td>
<td>88,651</td>
<td>95,081</td>
<td>6,430</td>
<td>7.3</td>
</tr>
<tr>
<td>445</td>
<td>Food and Beverage Stores</td>
<td>228,561</td>
<td>243,215</td>
<td>14,654</td>
<td>6.4</td>
</tr>
<tr>
<td>446</td>
<td>Health and Personal Care Stores</td>
<td>82,885</td>
<td>92,848</td>
<td>9,963</td>
<td>12.0</td>
</tr>
<tr>
<td>447</td>
<td>Gasoline Stations</td>
<td>46,675</td>
<td>49,595</td>
<td>2,920</td>
<td>6.3</td>
</tr>
<tr>
<td>448</td>
<td>Clothing and Clothing Accessories Stores</td>
<td>112,135</td>
<td>112,392</td>
<td>257</td>
<td>0.2</td>
</tr>
<tr>
<td>451</td>
<td>Sporting Goods, Hobby, Book, and Music Stores</td>
<td>37,942</td>
<td>43,255</td>
<td>5,313</td>
<td>14.0</td>
</tr>
<tr>
<td>452</td>
<td>General Merchandise Stores</td>
<td>214,407</td>
<td>226,092</td>
<td>11,685</td>
<td>5.5</td>
</tr>
<tr>
<td>453</td>
<td>Miscellaneous Store Retailers</td>
<td>56,729</td>
<td>59,842</td>
<td>3,113</td>
<td>5.5</td>
</tr>
<tr>
<td>454</td>
<td>Nonstore Retailers</td>
<td>44,128</td>
<td>50,248</td>
<td>6,120</td>
<td>13.9</td>
</tr>
<tr>
<td>48</td>
<td>Transportation and Warehousing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>481</td>
<td>Air Transportation</td>
<td>42,589</td>
<td>48,017</td>
<td>5,428</td>
<td>12.8</td>
</tr>
<tr>
<td>482</td>
<td>Rail Transportation</td>
<td>4,948</td>
<td>4,679</td>
<td>-269</td>
<td>-5.4</td>
</tr>
<tr>
<td>483</td>
<td>Water Transportation</td>
<td>13,387</td>
<td>14,170</td>
<td>783</td>
<td>5.9</td>
</tr>
<tr>
<td>484</td>
<td>Truck Transportation</td>
<td>54,315</td>
<td>58,502</td>
<td>4,187</td>
<td>7.7</td>
</tr>
<tr>
<td>485</td>
<td>Transit and Ground Passenger Transportation</td>
<td>16,373</td>
<td>18,232</td>
<td>1,859</td>
<td>11.4</td>
</tr>
<tr>
<td>486</td>
<td>Pipeline Transportation</td>
<td>368</td>
<td>390</td>
<td>22</td>
<td>6.0</td>
</tr>
<tr>
<td>488</td>
<td>Support Activities for Transportation</td>
<td>60,800</td>
<td>67,330</td>
<td>6,530</td>
<td>10.7</td>
</tr>
<tr>
<td>493</td>
<td>Warehousing and Storage</td>
<td>36,885</td>
<td>41,483</td>
<td>4,598</td>
<td>12.5</td>
</tr>
</tbody>
</table>
February 27, 2019

Dr. Moez Limayem  
Muma College of Business  
University of South Florida  
4202 East Fowler Avenue  
Tampa, FL 33620-5500  

Dean Limayem,  

The purpose of this letter is to provide support for USF's two proposed degree programs in supply chain management— the Bachelor of Science degree in supply chain management and the Master of Science degree in supply chain management. Both degrees address a major talent shortfall within the global supply chain management industry space. Additionally, supply chain salaries for graduates are higher than most starting salaries for most other occupations. Placement rates for students concentrating in SCM have exceeded 90% for the past few years and with B.S. and M.S. programs, the hiring rates could even be higher.

The content and specific courses to be offered were created utilizing a partnership between industry practitioners and faculty at USF’s Center for Supply Chain Management & Sustainability. The proposed B.S./SCM and M.S./SCM degree programs enable USF faculty to add additional electives and innovative courses to the programs, such as Sustainable Supply Chain Management, Global Sourcing, and others.

Supply Chain is now part of the STEM initiative, thus the promotion and emphasis on needed skills. These degrees are very attractive to the female student as a favorable alternative to computer science and engineering. Individuals in the programs develop skillsets that allow them to contribute to their future employers immediately after they are hired.

These programs are worthwhile and fill a need in the marketplace. I am pleased to provide my support for these programs. If you have any questions, do not hesitate to contact me.

Sincerely,

Monica B. Wooden  
Co-founder MercuryGate International, Inc.  
mbw@mercurygate.com  
813-505-6235
February 25, 2019

Moez Limayem  
Muma College of Business  
University of South Florida  
4202 East Fowler Avenue  
Tampa, FL 33620-5500

Dear Dean Limayem

The purpose of this letter is to highlight my support for the two proposed degree programs in supply chain management, at USF’s Muma College of Business. While geared for individuals at different stages in their careers, both the BS and MS programs address a critical talent shortfall within the global supply chain management industry space. Whether dealing with the trade imbalance issues in Florida, or working on other national and/or global supply chain initiatives, our economy needs individuals with these skills.

The proposed programs were created through an industry/academic collaboration featuring Muma supply chain faculty and executive advisory board members of the Center for Supply Chain Management & Sustainability. Therefore, the learning objectives were developed to address current and future needs in this high-growth field. The BS/SCM program helps to address critical workforce, economic development, and STEM education needs through courses emphasizing global logistics, transportation, and manufacturing. Targeted to managers, the proposed MS/SCM degree program helps seasoned supply chain professionals build and refine their skills, enabling them to further their careers in management and executive roles. This program is the first of its kind to leverage a USF partnership with MIT for content delivery. This helps reduce costs for students, while opening up opportunities for them to continue with graduate coursework in a one-of-a-kind format.

The innovative programs highlighted above are very much needed in and across industries. They help individuals continue to develop their skills in ways that allow them to tackle problems not even yet invented. Please accept my support of these programs, and feel free to contact me with questions.

Sincerely,

Michael Armanious

10320 49th Street North Clearwater FL 33762  
727.571.4159 | datexcorp.com
April 15, 2019

Dr. Ralph C. Wilcox  
Provost and Executive Vice President  
University of South Florida  
4242 East Fowler Avenue, CGS 401  
Tampa, FL 33620

Dear Provost Wilcox:

Thank you for the opportunity to review both the proposed BS and MS Logistics, Materials, and Supply Chain Management. Florida International University is supportive of your creating separate degree programs in this field.

As FIU continues to work within the Florida Consortium of Metropolitan Research Universities with your institution, we look forward to following your success in the degree implementations and continuing our collaborative efforts. The Supply Chain faculty in FIU’s Marketing Department expect there to be opportunities in the future to work together on solving some of Florida’s supply chain challenges.

Sincerely,

Kenneth G. Furton  
Provost and Executive Vice President
OFFICE OF THE PROVOST AND
VICE PRESIDENT FOR ACADEMIC AFFAIRS
April 23, 2019

Dr. Ralph C. Wilcox
Provost and Executive Vice President
University of South Florida
4202 East Fowler Avenue, CGS 401
Tampa, FL 33620-6100

Dear Dr. Wilcox:

Thank you for the opportunity to review the proposal for the new degree program--Masters in Logistics, Materials, and Supply Chain Management. Florida Agricultural and Mechanical University (FAMU) currently offers a M.S. in Supply Chain Management (CIP 52.0203). Supply chain is a fast growing industry and the need for professionals trained in this area is significant. The proposed program by USF helps to further address this need along with FAMU and other programs within the SUS offering such a degree. Therefore, FAMU offers full support for the Masters in Logistics, Materials, and Supply Chain Management.

Best wishes to your team as they move forward in developing the program. We believe this program will be a benefit to the State University System and workforce of Florida.

Sincerely,

Maurice Edington, Provost and Vice President for Academic Affairs

c: Dean Shawnta Friday-Stroud
   School of Business and Industry

   Dr. Sundra Kincey
   Assistant VP for Academic Affairs
March 27, 2018

Dr. David Swanson
Associate Professor of Transportation and Logistics
Co-Editor-in-Chief Transportation Journal
Department of Marketing and Logistics
Coggin College of Business
University of North Florida
1 UNF Drive
Jacksonville, FL 32224

Dean Moez Limayem
Muma College of Business
University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620

Dear Dr. Limayem,

I was excited to hear that the University of South Florida is nearing the finalization of a BS and MS in Supply Chain Management. I wanted to write a letter in support of your efforts.

The demand for people trained in supply chain management continues to grow, and this demand is outpacing the supply. It’s not enough for students to be trained in one aspect of supply chain management, such as transportation, purchasing, or logistics information systems. Industry is requiring students who have a strong understanding of end-to-end supply chain management. The USF degree programs in supply chain management will go a long way toward meeting industry demands in Florida.

In Fall 2019 the University of North Florida will be accepting students who seek a MS degree in Logistics and Supply Chain Management, which closely parallels the USF curriculum for the MS in SCM. You may have heard that Florida International University also has recently approved a graduate degree program in supply chain management. These programs are testimony of the need for supply chain management education, and there is demand in all the economic regions of Florida.

Sincerely,

David

David Swanson, PhD
Associate Professor of Transportation and Logistics
Co-Editor-in-Chief, Transportation Journal
University of North Florida
April 3, 2019

Dean Moez Limayem
Muma College of Business
University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620

Dear Dean Limayem,

It is a privilege to support the efforts of the University of South Florida in establishing Bachelors and Masters Degrees in Supply Chain Management. Having participated in proposing and establishing our supply chain related degrees at UWF, I have researched the state of logistics within Florida and throughout the United States. It is clear to me that graduates, having supply chain management knowledge and skills, are in high demand by industry, yet, there are not enough stand alone supply chain degree programs to meet industry demand.

Trade and logistics has been identified by the Florida Chamber of Commerce as highly important for positioning Florida as a leader among states for global trade and investment. The Florida Trade and Logistics 2013 study concluded the need for 150,000 supply chain related new jobs up to the present. Nationwide, the U.S. Bureau of Labor Statistics indicates an expected 22% growth of jobs related to supply chain management by 2022.

To meet such industry demand, the stand alone supply chain related degrees from our Florida colleges and universities must also grow. Our graduates receive starting salaries among the highest awarded to business graduates; approximate starting annual salaries averaging $50,000 to $60,000 and some exceeding $70,000. Moreover, our students have nearly 100% job placement in a supply chain related position upon graduation. This is very similar to that of our other Florida supply chain degree programs and across the nation, as a whole.

Dean Limayem, without disciplined knowledge in supply chain management, frontline and executive managers are likely to make critical workplace decisions that are more costly and reduce quality of service. Consequently, Florida’s goal to gain a competitive advantage in trade and logistics could be jeopardized in the absence of growth among our university supply chain degree programs.

Our UWF standalone Supply Chain Logistics Management Degree has increased to over 100 majors and has exceeded our initial projected growth by about 30% to this point. Dean Limayem, industry demand is high for graduates, student demand is high for the major, and salaries and opportunities for graduates in supply chain management are among the highest. Your proposed degrees in supply chain management are important to the students, industry, and discipline within Florida and across the nation.

Thank you for the opportunity to show my support. My colleagues and I look forward to future opportunities to collaborate with your supply chain faculty and advance the opportunities for our Florida students, contribute to Florida’s advancement in supply chain related industries, and pursue joint research to advance our collective knowledge of supply chain management.

Sincerely,

Scott B. Keller, Ph.D.
Professor, Logistics and Supply Chain Management
Director of the Center for Supply Chain Management Excellence
Associate Editor, Journal of Business Logistics
Former Editor-in-Chief, International Journal of Logistics Management
Department of Marketing, Supply Chain Logistics, and Economics
University of West Florida
11000 University Parkway
Pensacola, FL 32514
850-857-5441
skeller@uwf.edu
Appendix D

Donna Davis

Education
Ph.D., University of Tennessee, Marketing and Information Management, 2003
M.B.A., University of Tennessee, 1993
B. A., Maryville College, 1983

Academic Experience
University of South Florida
Marketing Department Chair 2016 - present
Professor 2015 – present
Co-Director, Center for Supply Chain Management & Sustainability 2013 – present
Associate Professor 2013 - 2015

Texas Tech University
Associate Professor, Georgie G. Snyder Professorship
Coordinator, Global Supply Chain Management Program 2009-2013
Assistant Professor 2003-2009

Current Memberships in Professional Organizations
Council for Supply Chain Management Professional
American Marketing Association
Academy of Marketing Science

Service Activities Within and Outside of Institution
University Committees
Muma College of Business Undergraduate Programs Committee 2013 – 2015
Muma College of Business MBA Committee 2013 – 2015

Editorial Positions
Senior Associate Editor: International Journal of Physical Distribution & Logistics Management
Executive Advisory Board: Journal of Business Logistics

Research – Selected Refereed Journal Articles

**Research Funding**

• 2016, Co-PI, Evaluation of Florida’s Inbound and Outbound Freight Imbalance, *Florida Department of Transportation*, $199,660.
• 2015, Co-PI, Land Use Analysis to Enhance Successful Logistics Activity Center Development, *Florida Department of Transportation – District 7*, $123,601.
• 2015, Principal Investigator, Supply Chain Audit for Pasco County Food Services, *Pasco County School District*, $10,000.
Robert Hooker

Education
Ph.D. Business Administration, The Florida State University, 2010
Master of Business Administration, The Florida State University, 2005
Bachelor of Science, The Florida State University, 2002

Academic Experience
University of South Florida, Associate Professor 2015-Present
Florida State University, Instructor 2005-2010

Non-Academic Experience
First Command Financial Services, Ft. Worth, TX, Marketing Specialist/Consultant 2004-2005
State of Florida, Dept. of Management Services, Tallahassee, FL, Researcher 2005
JP Morgan Chase, Chicago, IL/Detroit, MI, Banking Analyst 2002-2003

Current Memberships in Professional Organizations
Council for Supply Chain Management Professionals
Institute for Supply Management
Decision Sciences Institute
Academy of Marketing Science
American Marketing Association

Service Activities Within and Outside of Institution
Editorial Review Board - Journal of Supply Chain Management
Reviewer - Journal of Cleaner Production, European Journal of Information Systems, Sustainable Value Chain Management, Encyclopedia of E-Collaboration,
Managing Editor - CAIS (Jan. 2008- March 2009)
Conference Co-coordinator – New Ventures in Virtual Worlds Conference
(McCombs Business School – University of Texas at Austin, 2009)
USF Search Committees (Supply Chain, Strategy, IS/DS, and Entrepreneurship (2011-2013)
USF CES Committee (2011-2012)
USF AACSB Assessment Committee (2011-2012)
USF PolySTEM Committee (2012)
USF Graduate Committee (2011-2012)

Research – Refereed Journal Articles
  *One of the Top 10 most downloaded articles in JSCM history.

**Refereed Book Chapters**


**Grant Activity**


• **U.S. Department of State**, Project ID: P000974, Supply Chain Research Project Grant with Swedish Government, $3.1k, (2017, Awarded)

• **Nordic Innovation Center** (Associate Research Recipient), $1M, (2010-2012, Awarded)

• **Global Faculty Fellowship Grant**, $1.4k, (Fall 2017, Awarded)
James Stock

**Education**
Ph.D., The Ohio State University, 1975  
MBA, The University of Miami, 1971  
B.S., The University of Miami, 1968

**Academic Experience**
University of South Florida  
Distinguished University Professor, University of South Florida  2012-present  
Frank Harvey Endowed Professor of Marketing  2008-present  
Professor  1989-2007

Michigan State University  
Professor, Department of Marketing and Transportation Administration,  1987-1989

School of Systems and Logistics, Air Force Institute of Technology  
Distinguished Visiting Professor of Logistics Management  1986-1988

University of Oklahoma  
Associate Professor of Marketing  1980-1987

University of Notre Dame  
Assistant Professor of Marketing  1975-1980

**Current Memberships in Professional Organizations**
American Association for the Advancement of Science (AAAS)  
Beta Gamma Sigma (BGS)  
Faculty Commons (formerly Christian Leadership Ministries)  
Council of Supply Chain Management Professionals (CSCMP)  
Phi Kappa Phi  
SOLE—The International Society of Logistics  
Warehousing Education and Research Council (WERC)

**Selected Service Activities Within and Outside of Institution**
University of South Florida:  
- Co-Director, Center for Supply Chain Management and Sustainability, College of Business, Department of Marketing (2013-present)  
- A.P.J. Abdul Kalam Postgraduate Fellowship Selection Committee (2016)  
- Chair, USF Distinguished University Professor Selection Committee (2016)  
- Faculty Liaison to the Workgroup on Finance and Audit, USF Board of Trustees (2013-2015)  
- USF Honors and Awards Committee (2007-2010; 2010-2013)  
- USF Distinguished University Professor Guidelines Review Committee (2013)  
- USF Graduate Council (1991-1995); Vice Chair (1993-1994)  
- Ph.D. Coordinator, Department of Marketing (1991-2000, 2004-2013)

**Editorships:**  
Editorial Review Boards:

- Asia-Pacific Marketing Review (2012-present)
- European Business Review (2005-present)
- International Journal of Physical Distribution and Logistics Management (2004-present)
- International Journal of Value Chain Management (2003-present)
- Journal of Business Logistics (2004-present)
- Logistics Quarterly (2011-present)
- Logistics Research (2008-present)
- Paradigm—Journal of IMT Ghaziabad (2005-present)
- Pertanika Journal of Social Sciences & Humanities (2009-present)
- South African Journal of Transportation and Supply Chain Management (2005-present)
- Strategic Insights into Quality (1992-1998)

Selected Research 2008 - 2018
Refereed Journal Articles

**Executive Summary:** The proposed new degree program is the Bachelor of Science in Environmental Chemistry (B.S.). The degree provides students with all of the State Mandated Prerequisites and core courses found in a General Chemistry degree program with additional emphasis on environmental science, data analytics and business. Students graduating with a degree in Environmental Chemistry will be prepared to apply basic skills in chemistry to solve global and marketplace problems that face Florida’s environment. They will have the skills to investigate the manner in which human activity impacts air, water and soil and how pollutants enter the environment. The University of South Florida at the St. Petersburg Campus will be the first university in the State to offer a full degree in Environmental Chemistry. Only one other institution in the Southeastern United States offers this degree (University of Georgia) and there are only 13 other degree programs with this IPEDS code in the United States. National databases suggest that job opportunities for Environmental Chemists will increase from 11 percent nationally and 18 percent statewide between 2016 and 2026, exceeding the growth of all other occupations. Students graduating with a degree in Environmental Chemistry will earn roughly $70,000 in annual income because of the specialization in physical sciences in addition to environmental science.

**Financial Impact:** This new degree program will be funded through the reallocation of base Education & General faculty costs in proportion to teaching effort contributed to the new program. Additional costs, including a physical lab build-out and funding for a new faculty hire will be supported by funds generated through new enrollment, current base funding, and those released from internal reallocation of existing resources at USFSP.

**Strategic Goal(s) Item Supports:**
The Environmental Chemistry degree will increase STEM education at the St. Petersburg campus.

**BOT Committee Review Date:** ACE May 14, 2019

**Supporting Documentation Online (please circle):** Yes No

**USF System or Institution specific:** USF St. Petersburg

**Prepared by:** Susan Toler, Ph.D., Associate Dean, College of Arts and Sciences, USF St. Petersburg
Board of Governors, State University System of Florida

Request to Offer a New Degree Program
(Please do not revise this proposal format without prior approval from Board staff)

<table>
<thead>
<tr>
<th>University of South Florida St. Petersburg</th>
<th>Fall 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Submitting Proposal</td>
<td>Proposed Implementation Term</td>
</tr>
<tr>
<td>College of Arts &amp; Sciences</td>
<td>College of Arts &amp; Sciences</td>
</tr>
<tr>
<td>Name of College(s) or School(s)</td>
<td>Name of Department(s)/ Division(s)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Bachelor of Science in Environmental Chemistry</td>
</tr>
<tr>
<td>Academic Specialty or Field</td>
<td>Complete Name of Degree</td>
</tr>
<tr>
<td>40.0509</td>
<td></td>
</tr>
</tbody>
</table>

Proposed CIP Code

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met prior to the initiation of the program.

<table>
<thead>
<tr>
<th>Date Approved by the University Board of Trustees</th>
<th>President</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signature of Chair, Board of Trustees</th>
<th>Date</th>
<th>Vice President for Academic Affairs</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Provide headcount (HC) and full-time equivalent (FTE) student estimates of majors for Years 1 through 5. HC and FTE estimates should be identical to those in Table 1 in Appendix A. Indicate the program costs for the first and the fifth years of implementation as shown in the appropriate columns in Table 2 in Appendix A. Calculate an Educational and General (E&G) cost per FTE for Years 1 and 5 (Total E&G divided by FTE).

<table>
<thead>
<tr>
<th>Implementation Timeframe</th>
<th>Projected Enrollment (From Table 1)</th>
<th>Projected Program Costs (From Table 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1</td>
<td>96</td>
<td>77</td>
</tr>
<tr>
<td>Year 2</td>
<td>111</td>
<td>89</td>
</tr>
<tr>
<td>Year 3</td>
<td>123</td>
<td>98</td>
</tr>
<tr>
<td>Year 4</td>
<td>130</td>
<td>104</td>
</tr>
<tr>
<td>Year 5</td>
<td>140</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>140</td>
<td>112</td>
</tr>
</tbody>
</table>

Note: This outline and the questions pertaining to each section must be reproduced within the body of the proposal to ensure that all sections have been satisfactorily addressed. Tables 1 through 4 are to be included as Appendix A and not reproduced within the body of the proposals because this often causes errors in the automatic calculations.
Table of Contents

INTRODUCTION: .................................................................................................................................................... 3
I       Program Description and Relationship to System-Level Goals ................................................................. 3

INSTITUTIONAL AND STATE LEVEL ACCOUNTABILITY: .................................................................................. 5
II.     Need and Demand ............................................................................................................................................. 5
III.    Budget .......................................................................................................................................................... 9
IV.     Projected Benefit of the Program to the University, Local Community, and State ................................. 11
V.      Access and Articulation – Bachelor’s Degree Only ..................................................................................... 12

INSTITUTIONAL READINESS: .................................................................................................................................... 13
VI.     Related Institutional Mission and Strength ................................................................................................. 13
VII.    Program Quality Indicators - Reviews and Accreditation ......................................................................... 16
VIII.   Curriculum .................................................................................................................................................. 17
IX.     Faculty Participation .................................................................................................................................... 27
X.      Non-Faculty Resources ................................................................................................................................ 29

List of Tables
Table 1:  Alignment With State University System Strategic Goals ........................................................................ 4
Table 2:  Enrollment by State University Institutions for CIP 40.0501 ................................................................ 6
Table 3:  Degrees Awarded by State University Institutions for CIP 40.0501 .................................................... 6
Table 4:  Public and Private Institutions in the St. Petersburg Region offering Chemistry Degrees .................... 7
Table 5:  Planning Process ....................................................................................................................................... 15
Table 6:  Events Leading to Implementation ......................................................................................................... 16

List of Figures
Figure 1:  Student Interest in Environmental Chemistry Major: ............................................................................ 7
Figure 2:  Growth in Number of Chemistry Minors: ............................................................................................... 28

Appendices
Appendix A:  Required Tables ................................................................................................................................ 34
Table 1-A:  Projected headcount from potential sources (Required by Template) .................................................. 34
Table 2-A:  Projected costs and funding sources (Required by Template) ............................................................... 35
Table 3-A:  Anticipated reallocation of education & general funds (Required by Template) ............................. 36
Table 4-A:  Anticipated faculty participation (Required by Template) ................................................................. 37

Appendix B:  Signature of the Equal Opportunity Officer and the Library Director .................................................. 38
Appendix C:  Academic Learning Compact ............................................................................................................. 39
Appendix D:  Course Catalog (Proposed) & FUSE Plan ......................................................................................... 40
Appendix E:  EAB Report – Market Demand for a Bachelor’s-Level Environmental Chemistry Program .................. 44
Appendix F:  Letters of Support from Community Partners .................................................................................. 58
Appendix G:  Faculty Curriculum Vitae ................................................................................................................ 71
INTRODUCTION

I. Program Description and Relationship to System-Level Goals

A. Briefly describe within a few paragraphs the degree program under consideration, including (a) level; (b) emphases, including majors, concentrations, tracks, or specializations; (c) total number of credit hours; and (d) overall purpose, including examples of employment or education opportunities that may be available to program graduates.

The Bachelor of Science (B.S.) in Environmental Chemistry is designed to provide students with an undergraduate degree in Chemistry including State Mandated Prerequisites in addition to core courses found in a General Chemistry degree. While emphasis is on a chemistry foundation, additional core and elective courses focus on environmental science and the application of practical scientific knowledge to meet employer needs. Additional electives provide students with an opportunity to develop skills in Environmental Science, Business and Data Analysis and Programming depending on their elective choices. The degree consists of 120 hours and offers students a wide range of employment opportunities, such as careers as Clinical laboratory technologists and technicians, chemists, environmental scientists and specialists, and environmental science and protection technicians. Because of the strong STEM foundation in the curriculum, students will also be prepared for a wide range of graduate programs, such as Sustainability and Environmental Science. The Educational Advisory Board (EAB, Appendix E) suggests state-wide demand for bachelor-level environmental chemistry professionals increased 70% from September 2016 to September 2018 (Appendix E). The program’s emphasis on applied chemistry with emphasis on environmental science, and optional electives in management and machine learning in addition to basic programming are high on the list of skills employers are seeking.

The University of South Florida as a system supports this newly developed Environmental Chemistry degree program. While the program initially will be offered and have its administrative home on the St. Petersburg campus, student demand in time may warrant offering the program on the Tampa and/or Sarasota-Manatee campuses. In the context of consolidation, resources to support this degree in terms of faculty talent and financial support will be available system-wide.

B. Please provide the date when the pre-proposal was presented to CAVP (Council of Academic Vice Presidents) Academic Program Coordination review group. Identify any concerns that the CAVP review group raised with the pre-proposed program and provide a brief narrative explaining how each of these concerns has been or is being addressed.

The pre-proposal was presented to the CAVP Academic Program Coordination Review Group on April 6, 2018. No concerns were identified.

C. If this is a doctoral level program please include the external consultant’s report at the end of the proposal as Appendix D. Please provide a few highlights from the report and describe ways in which the report affected the approval process at the university.

Not applicable. This is not a doctoral level program.

D. Describe how the proposed program is consistent with the current State University System (SUS) Strategic Planning Goals. Identify which specific goals the program will directly support and which goals the program will indirectly support (see link to the SUS Strategic Plan on the resource page for new program proposal).

The Environmental Chemistry degree program is consistent with the State University System Strategic Planning Goals in a number of ways. Table 1 outlines a wide range of areas in which the degree increases excellence, productivity and strategic priorities across teaching, scholarship and community partnerships. This unique program will develop citizens who will find solutions to the economic and societal challenges of the future. Students graduating with a degree in Environmental Chemistry will be
prepared to apply basic skills in chemistry to solve global and marketplace problems that face Florida’s environment. It is expected that faculty research will develop innovative solutions to problems with the Florida environment and human health. These innovations will have a significant impact on quality of life and the economy. Students will be able to face the challenges environmental problems present with creative solutions to issues facing the environment and the citizens of Florida.

Table 1 also indicates the extent to which the Environmental Chemistry degree program directly meets the SUS Strategic Planning Goals (represented by double checks) or indirectly meets the goals (represented by a single check).

Table 1
Alignment with State University System Strategic Goals

<table>
<thead>
<tr>
<th>State University System Goals</th>
<th>Excellence</th>
<th>Productivity</th>
<th>Strategic Priorities for a Knowledge Economy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching &amp; Learning</td>
<td>✔️ ✔️</td>
<td>✔️</td>
<td>✔️ The degree in Environmental Chemistry will increase the number of degrees awarded in STEM. This particular CIP of 40.0509 is not offered anywhere else in the state.</td>
</tr>
<tr>
<td>Scholarship, Research &amp; Innovation</td>
<td>✔️ ✔️</td>
<td>✔️</td>
<td>✔️ Collaboration and external support for research in Environmental Chemistry is inevitable, as the program develops.</td>
</tr>
<tr>
<td>Community &amp; Business Engagement</td>
<td>✔️ ✔️</td>
<td>✔️</td>
<td>✔️ The proposed degree provides a basic Chemistry degree with added skills in environmental science, business and data analysis to meet specific workforce needs.</td>
</tr>
</tbody>
</table>

**E. If the program is to be included in a category within the Programs of Strategic Emphasis as described in the SUS Strategic Plan, please indicate the category and the justification for inclusion.**

The Programs of Strategic Emphasis Categories:
1. Critical Workforce:
   - Education
   - Health
   - Gap Analysis
2. Economic Development:
   - Global Competitiveness
3. Science, Technology, Engineering, and Math (STEM)

Please see the Programs of Strategic Emphasis (PSE) methodology for additional explanations on program inclusion criteria at the resource page for new program proposal.

The Environmental Chemistry B.S. is identified as a Science, Technology, Engineering and Math (STEM) category of Strategic Emphasis. The program represents the first degree program in the State University System with the 40.0509 CIP classification. Other Chemistry programs in the state fall under the General Chemistry CIP 40.0501. Only two of these programs provide “tracks/concentrations” in Environmental Chemistry, in the context of a General Chemistry degree. The University of South Florida St. Petersburg will be the first state university to offer a full degree in Environmental Chemistry as described by IPEDS:

A program that focuses on the scientific study of natural systems (air, water, and soil) through the use of chemical techniques and instrumentation, with an emphasis on the movement and fate of pollutants and chemical aspects of contaminant remediation. Includes instruction in analytical, inorganic, organic, and physical chemistry; aquatic, soil and atmospheric chemistry; environmental engineering; environmental toxicology; and analytical methods.

F. Identify any established or planned educational sites at which the program is expected to be offered and indicate whether it will be offered only at sites other than the main campus.

The University of South Florida as a system supports this newly developed Environmental Chemistry degree program. While the program initially will be offered and have its administrative home on the St. Petersburg campus, student demand in time may warrant offering the program on the Tampa and/or Sarasota-Manatee campuses. In the context of consolidation, resources to support this degree in terms of faculty talent and financial support will be available system-wide.

INSTITUTIONAL AND STATE LEVEL ACCOUNTABILITY

II. Need and Demand

A. Need: Describe national, state, and/or local data that support the need for more people to be prepared in this program at this level. Reference national, state, and/or local plans or reports that support the need for this program and requests for the proposed program which have emanated from a perceived need by agencies or industries in your service area. Cite any specific need for research and service that the program would fulfill.

Environmental Chemists are in a position to address some of the most difficult challenges the human race will face in the future. They have the skills to investigate the manner in which human activity impacts our air, water and soil and how chemicals introduced by the human race enter the environment. It is expected that job opportunities for Environmental Chemists will increase from 11% between 2016 and 2026. This projected increase in the demand for Environmental chemists exceeds the growth of all other occupations (U.S. Bureau of Labor Statistics, “Occupational Outlook Handbook: Environmental Sciences and Specialists,” online at http://www.bls.gov/ooh/Life-Physical-and-Social-Science/Environmental-scientists-and-specialists.htm). More recent projections by EAB suggest an 18% growth rate in statewide employment (Appendix E). This employment outlook is attributed to the increased public interest in the hazards facing the environment in addition to the demands on the environment by population growth. An Educational Advisory Board (EAB) analysis of the state employment outlook suggests that there were 1,540 openings for bachelor-chemistry professionals in the past 12 months. Local trends revealed that 246 job openings for bachelor-chemistry professionals were posted for Tampa, St. Petersburg and Clearwater over the past 12 months. An additional 273 openings for bachelor-level chemistry professionals were posted in Orlando, Kissimmee and Sanford, Florida over the past 12 months (See Appendix E). The applied skills of an Environmental Chemist are sought in consulting firms, federal, state and local government agencies, industry and academia (American Chemical Society, 2014). Greater research and understanding of the impact of chemicals in the air, water and land is critical to understanding and resolving some of our greatest challenges in public health. Colleges and universities are hiring an increased number of Environmental Chemists as the demand for new research and understanding of the impact of chemicals in the environment on human health increases (American Chemical Society, 2014).

This program offers a curriculum unique within the State of Florida and nationally. In addition to a strong foundation in Chemistry, the top skills sought in the employment market included strong knowledge of Environmental Science, Policy & Law, Business Management and basic computer skills in data analytics (see Appendix E). The interdisciplinary nature of the present degree proposal provides students with an opportunity to acquire skills in these areas, depending on their elective choices.

Several employers have provided letters of support (see Appendix F). The College has already begun to develop an Environmental Chemistry Advisory Board to support internship opportunities in the Tampa, St. Petersburg and Sarasota-Manatee communities and to encourage regular feedback regarding student skills and curriculum development between the community and the University.

B. Demand: Describe data that support the assumption that students will enroll in the proposed program. Include descriptions of surveys or other communications with prospective students.
Documentation sited in Section IIA from the American Chemical Society (ACS) and the Occupational Outlook Handbook strongly suggests that an increased interest in Environmental Chemistry is predicted. Because there is no university in the Florida State University System that offers an Environmental Chemistry degree program under the 40.0509 CIP, the closest estimates of enrollment and graduation rates we have available might loosely be inferred from the General Chemistry programs across the State of Florida. Based on enrollment and graduation data from the SUS website, enrollment has been has been variable and inconsistent in the General Chemistry CIP across state institutions. While smaller state institutions have had some enrollment reduction, larger state institutions such as University of Florida and University of South Florida have enjoyed stronger linear growth trends (Table 2). As suggested by the American Chemical Society, greater growth trends and earning rates will be the trend in the area of Environmental Chemistry. Degrees awarded across these institutions are outlined in Table 3.

### Table 2

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMU</td>
<td>126</td>
<td>132</td>
<td>147</td>
<td>130</td>
<td>100</td>
<td>90</td>
<td>80</td>
<td>88</td>
<td>84</td>
<td>91</td>
</tr>
<tr>
<td>FAU</td>
<td>232</td>
<td>263</td>
<td>281</td>
<td>302</td>
<td>308</td>
<td>321</td>
<td>301</td>
<td>221</td>
<td>207</td>
<td>200</td>
</tr>
<tr>
<td>FGCU</td>
<td>48</td>
<td>53</td>
<td>74</td>
<td>85</td>
<td>95</td>
<td>99</td>
<td>93</td>
<td>65</td>
<td>60</td>
<td>43</td>
</tr>
<tr>
<td>FIU</td>
<td>455</td>
<td>470</td>
<td>551</td>
<td>640</td>
<td>696</td>
<td>741</td>
<td>756</td>
<td>757</td>
<td>706</td>
<td>656</td>
</tr>
<tr>
<td>FPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSU</td>
<td>113</td>
<td>117</td>
<td>126</td>
<td>147</td>
<td>147</td>
<td>255</td>
<td>268</td>
<td>327</td>
<td>309</td>
<td>137</td>
</tr>
<tr>
<td>NCF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UCF</td>
<td>209</td>
<td>200</td>
<td>238</td>
<td>236</td>
<td>263</td>
<td>291</td>
<td>284</td>
<td>292</td>
<td>348</td>
<td>311</td>
</tr>
<tr>
<td>UF</td>
<td>665</td>
<td>588</td>
<td>547</td>
<td>544</td>
<td>570</td>
<td>569</td>
<td>607</td>
<td>654</td>
<td>663</td>
<td>708</td>
</tr>
<tr>
<td>UNF</td>
<td>130</td>
<td>141</td>
<td>168</td>
<td>257</td>
<td>331</td>
<td>349</td>
<td>315</td>
<td>313</td>
<td>330</td>
<td>320</td>
</tr>
<tr>
<td>USF</td>
<td>379</td>
<td>405</td>
<td>422</td>
<td>446</td>
<td>455</td>
<td>420</td>
<td>411</td>
<td>419</td>
<td>403</td>
<td>425</td>
</tr>
<tr>
<td>UWF</td>
<td>100</td>
<td>118</td>
<td>115</td>
<td>134</td>
<td>141</td>
<td>140</td>
<td>138</td>
<td>137</td>
<td>109</td>
<td>109</td>
</tr>
<tr>
<td>Total</td>
<td>2,457</td>
<td>2,487</td>
<td>2,669</td>
<td>2,921</td>
<td>3,106</td>
<td>3,275</td>
<td>3,253</td>
<td>3,273</td>
<td>3,219</td>
<td>3,000</td>
</tr>
</tbody>
</table>

### Table 3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FAMU</td>
<td>17</td>
<td>9</td>
<td>43</td>
<td>31</td>
<td>49</td>
<td>37</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>FAU</td>
<td>37</td>
<td>28</td>
<td>41</td>
<td>43</td>
<td>31</td>
<td>49</td>
<td>37</td>
<td>45</td>
</tr>
<tr>
<td>FGCU</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>11</td>
<td>13</td>
<td>12</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>FIU</td>
<td>56</td>
<td>48</td>
<td>70</td>
<td>65</td>
<td>91</td>
<td>90</td>
<td>82</td>
<td>117</td>
</tr>
<tr>
<td>FPU</td>
<td>19</td>
<td>24</td>
<td>23</td>
<td>21</td>
<td>28</td>
<td>29</td>
<td>24</td>
<td>29</td>
</tr>
<tr>
<td>FSU</td>
<td>9</td>
<td>7</td>
<td>10</td>
<td>122</td>
<td>112</td>
<td>108</td>
<td>123</td>
<td>109</td>
</tr>
<tr>
<td>NCF</td>
<td>44</td>
<td>45</td>
<td>57</td>
<td>52</td>
<td>69</td>
<td>54</td>
<td>57</td>
<td>74</td>
</tr>
<tr>
<td>UCF</td>
<td>8</td>
<td>16</td>
<td>17</td>
<td>20</td>
<td>24</td>
<td>18</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Total</td>
<td>337</td>
<td>320</td>
<td>386</td>
<td>368</td>
<td>411</td>
<td>411</td>
<td>405</td>
<td>463</td>
</tr>
</tbody>
</table>
A simple questionnaire was sent to 297 Biology and Environmental Science students enrolled in Organic Chemistry I and II as well as Analytical Chemistry courses offered by USFSP. The Environmental Chemistry program was briefly described and students were asked to indicate how likely it would be that they would choose this as their major. While the response rate was small (n=58, 20% response) the interest in Environmental Chemistry was encouraging. Seventy-five percent of the respondents indicated they were “Somewhat likely” or “Very likely” to select this as their major.

**Figure 1**
Student Interest in Environmental Chemistry Major

![Student Interest in Environmental Chemistry Major](image)

C. If substantially similar programs (generally at the four-digit CIP Code or 60 percent similar in core courses), either private or public exist in the state, identify the institution(s) and geographic location(s). Summarize the outcome(s) of communication with such programs with regard to the potential impact on their enrollment and opportunities for possible collaboration (instruction and research). In Appendix C, provide data that support the need for an additional program.

Table 4 outlines public institutions in the State University System and local private institutions that offer degrees under CIP 40.0501, the General Chemistry code. The current proposal for Environmental Chemistry is **CIP 40.0509**, a degree specifically focused on Environmental Chemistry based on the IPEDS definition discussed in Section IE. No other university in the State of Florida offers a degree under this highly specialized CIP code. Currently, Florida State University offers a “track or concentration” as part of their General Chemistry degree (CIP 40.0599 Chemistry Other) which has an emphasis in Environmental Chemistry. Each of these colleges and universities required the State Mandated Pre-requisites for degree completion as part of their core or general degree requirements. These pre-requisites represent less than 50% of the core curriculum proposed in Environmental Chemistry.

**Table 4**
Public and Private Institutions in the St. Petersburg Region Offering Chemistry Degrees (CIP 40.0501)

<table>
<thead>
<tr>
<th>Institution</th>
<th>Location</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida Gulf Coast University</td>
<td>Fort Myers, Florida</td>
<td>Southwest Florida</td>
</tr>
<tr>
<td>Florida State University</td>
<td>Tallahassee, Florida</td>
<td>North Florida</td>
</tr>
<tr>
<td>University of Central Florida</td>
<td>Orlando, Florida</td>
<td>East Central Florida</td>
</tr>
<tr>
<td>University of Florida</td>
<td>Gainesville, Florida</td>
<td>North Florida</td>
</tr>
<tr>
<td>University of South Florida</td>
<td>Tampa, Florida</td>
<td>West Central Florida</td>
</tr>
<tr>
<td>Eckerd College</td>
<td>St. Petersburg, Florida</td>
<td>West Central Florida</td>
</tr>
<tr>
<td>University of Tampa</td>
<td>Tampa, Florida</td>
<td>West Central Florida</td>
</tr>
</tbody>
</table>

Because the proposed Environmental Chemistry degree that is interdisciplinary and applied, the degree is distinct from all of the degree programs offered locally, statewide and in the Southeastern United States. The EAB report (see Appendix E) suggests that only one other institution (University of Georgia) reported completion of Bachelor’s level Environmental Chemistry degrees in this CIP code of 40.0509. All other institutions in the south do not offer degrees in this CIP code: this includes: Alabama, Arkansas, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Oklahoma, Tennessee and Florida. This program is even more distinct in that it provides a curriculum that includes Business courses in Management, Economics and Machine Learning or Data Analytics in addition to a wide range of Environmental Science courses. These program requirements are unique to the current degree proposal.
and respond to workforce needs as described in the EAB report (see Appendix E).

D. Use Table 1 in Appendix A (1-A for undergraduate and 1-B for graduate) to categorize projected student headcount (HC) and Full Time Equivalents (FTE) according to primary sources. Generally undergraduate FTE will be calculated as 30 credit hours per year and graduate FTE will be calculated as 24 credit hours per year. Describe the rationale underlying enrollment projections. If students within the institution are expected to change majors to enroll in the proposed program at its inception, describe the shifts from disciplines that will likely occur.

Table 1-A (Appendix A) outlines projected student headcount and full time equivalents (FTE) based on a number of estimates. Student enrollment in the first year is expected to be predominantly FTIC and upper-level majors in Environmental Science and Biology who may change their major from within USF System (70 students, Figure 1). As USF consolidation evolves, it is anticipated that General Chemistry majors from Tampa may also wish to specialize in Environmental Chemistry on the St. Petersburg campus. A FUSE program is developed (see Appendix D) and will be coordinated with all local Florida College System (FCS) institutions. In years two through five, growth of the program will be attributed to Florida College System upper level transfers in addition to incoming FTIC students. Enrollment projections were also estimated based on the past history of the ratio of Biology majors in the first year of the USFSP program to all majors in the Biology department in Tampa. This estimate is based on the assumption that the Environmental Chemistry growth rate will be roughly proportional and equivalent to the growth rate of the USFSP Biology program in proportion to the USF Tampa Biology programs. Other data used in estimating student headcount are discussed in Section II. B.

E. Indicate what steps will be taken to achieve a diverse student body in this program. If the proposed program substantially duplicates a program at FAMU or FIU, provide, (in consultation with the affected university), an analysis of how the program might have an impact upon that university’s ability to attract students of races different from that which is predominant on their campus in the subject program. The university’s Equal Opportunity Officer shall review this section of the proposal and then sign and date Appendix B to indicate that the analysis required by this subsection has been completed.

The Environmental Chemistry degree program is not offered at either FAMU or FIU.

The University of South Florida actively recruits and supports prospective students across many underserved populations. The USF Admissions staff actively reaches out to underrepresented groups and engages with high schools on a monthly basis. This outreach is focused on students who are in the admission process to ensure timely application completion and admission decisions. This community commitment is central to the USF’s Institutional Diversity and Inclusion Plan. This Plan emphasizes recruiting, retaining and graduation of students from underrepresented groups, particularly in fields where they are underrepresented.

The St. Petersburg campus draws the majority of its students from the surrounding Pinellas County region. Of the 4,096 undergraduate students enrolled at USFSP in the fall 2018 semester, 19% were Hispanic, 8% were African American and 64% were female. This program will provide access to students in these groups, which are historically underrepresented in STEM fields.

Program specific efforts to achieve a diverse student body involve the development of several educational grants that have been submitted and will be submitted to develop programs at Lakewood High School and Campbell Park Elementary School. These proposals involve students in Environmental Science and Chemistry projects that test water and soil quality. They are focused on engaging students in STEM activities and increasing student awareness of occupations in these fields as well as degree programs available to them at USFSP.
III. Budget

A. Use Table 2 in Appendix A to display projected costs and associated funding sources for Year 1 and Year 5 of program operation. Use Table 3 in Appendix A to show how existing Education & General funds will be shifted to support the new program in Year 1. In narrative form, summarize the contents of both tables, identifying the source of both current and new resources to be devoted to the proposed program. (Data for Year 1 and Year 5 reflect snapshots in time rather than cumulative costs.)

Year 1 total costs are projected to be $300,468 and Year 5 projected cost is $936,348. As reported in Table 4-A, all USFSP chemistry faculty (5) will be teaching in the new degree program with additional support from chemistry faculty from the College of Marine Science (see Section IX Faculty Participation). The salary and benefit funding of the existing Chemistry faculty members ($531,391), in proportion to their teaching contribution to the Environmental Chemistry program, will be reallocated to the proposed degree program ($145,552). A new Tenure-track Chemistry Professor, who will be a generalist and capable of teaching a wide range of undergraduate chemistry courses has been approved and budgeted for this program. Funding for this position was reallocated from a vacant tenured faculty position and approved by USFSP Academic Affairs.

Table 3-A identifies the reallocation of $145,552 in salary and benefits funding from existing faculty members in proportion to their teaching contribution. An additional reallocation of $21,796 from the College of Business Information Systems Management salary will support the data analytics portion of the curriculum. Table 2-A outlines a cost of $167,348 for faculty salaries and benefits to deliver the program in Year 1. As the program develops, it is expected the cost of faculty salaries and benefits will remain the same in Year 5.

The sources of funding for Year 1 will be reallocated from base E. & G. (Table 2-A). It is expected that by Year 5 the total cost of the program will be part of the continuing base E. & G.

In Year 1 and 5 additional expenditures of $7,000 each year will be required for continuing Library resource support. Additional costs in Year 1 include $6,000 in adjunct expenses for new course sections and $12,000 in Year 5 for course coverage. As the Environmental Chemistry program grows in enrollment, along with our other STEM programs in Environmental Science & Policy and Biology, it is expected that Year 5 will require construction of an additional Chemistry Lab to continue to support the growing need for teaching laboratories. The Year 5 lab construction cost is estimated to be $375,000, with an additional $375,000 estimated in Operating Capital Outlay (OCO). Appendix F includes a letter of support from the USFSP Regional Chancellor, Dr. Martin Tadlock, indicating the funding will be available for these expenditures from Education and General carry forward funds. Laboratory supplies in Year 1 will require $12,120 in additional expenses, it is anticipated that course laboratory fees will support the need for supplies in Year 5. Thirty-three thousand dollars ($33,000) for equipment to service new labs such as Physical Chemistry, Inorganic Chemistry and Environmental Chemistry are additional expenses anticipated in Year 5. The current inventory of laboratory equipment and the inventory of new equipment needed for the degree program are outlined in detail in Section X. G. The budget for the proposed Environmental Chemistry program have been reviewed and supported by the USFSP leadership.

B. Please explain whether the university intends to operate the program through continuing education, seek approval for market tuition rate, or establish differentiated graduate-level tuition. Provide a rationale for doing so and a timeline for seeking Board of Governors’ approval, if appropriate. Please include the expected rate of tuition that the university plans to charge for this program and use this amount when calculating cost entries in Table 2.

The University of South Florida St. Petersburg does not intend to operate the program through continuing education; or seek approval for market tuition rate or establish differentiated graduate-level tuition.
C. If other programs will be impacted by a reallocation of resources for the proposed program, identify the impacted programs and provide a justification for reallocating resources. Specifically address the potential negative impacts that implementation of the proposed program will have on related undergraduate programs (i.e., shift in faculty effort, reallocation of instructional resources, reduced enrollment rates, greater use of adjunct faculty and teaching assistants). Explain what steps will be taken to mitigate any such impacts. Also, discuss the potential positive impacts that the proposed program might have on related undergraduate programs (i.e., increased undergraduate research opportunities, improved quality of instruction associated with cutting-edge research, improved labs and library resources).

It is anticipated that students from the Biology program and the Environmental Science and Policy program may change majors early in their undergraduate career. The survey data presented in Figure 1 suggests roughly 30 students from other majors may move to the Environmental Chemistry program. Given the number of Biology students currently enrolled at USFSP (estimated to be 745), this will not have a significant impact on the program. Introducing the new program to students allows them more options to pursue their vocational interests, since it will be the first and only Chemistry program offered on this campus. If the program grows as anticipated, it is possible that more Math, Chemistry and Physics faculty will be needed in response to the overall growth in STEM programs in St. Petersburg.

The proposed program will increase undergraduate research opportunities in STEM. More advanced Chemistry instruction will be available to students with the introduction of a new Chemistry curriculum, such as Physical Chemistry, Inorganic Chemistry. Project/Research based courses such as The Use of Chemical Literature, and Independent Research in Chemistry will more than double student involvement in meaningful research that impacts the environment. Collaborations with local industries will establish an Environmental Chemistry Advisory Board to oversee the degree program and encourage internships. This collaboration will address the needs of students and the surrounding communities. Appendix F provides documentation of the community partnerships this degree program will promote.

D. Describe other potential impacts on related programs or departments (e.g., increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the proposed major).

Depending on the actual enrollment growth rate of the Environmental Chemistry degree, it is possible that additional sections of general education courses and State Mandated prerequisites will take place. The courses that are most likely to see an increased demand include: Calculus II, Physics I & Lab, Physics II and Lab, in addition to General Chemistry I & Lab, General Chemistry II and Lab as well as Organic Chemistry courses. This increase in demand is not exclusively due to the introduction of the Environmental Chemistry degree, but also related to the increasing enrollment in the Biology and Environmental Science and Policy programs.

E. Describe what steps have been taken to obtain information regarding resources (financial and in-kind) available outside the institution (businesses, industrial organizations, governmental entities, etc.). Describe the external resources that appear to be available to support the proposed program.

We have contacted a number of local businesses identified by the Career Center, who are seeking interns and have job postings for students with skills in Environmental Chemistry. Several of these businesses have provided letters of support found in Appendix F. We are in the process of forming an Environmental Chemistry Advisory Board of local businesses who not only provide internships to students, but also support the program through regular feedback regarding student knowledge and skills essential to the curriculum development which will keep students current in a dynamic field. It is anticipated that our community partners will continue to provide a wide range of support for our students.
Community partners that have expressed support for the program include:

- The City of St. Petersburg
- Southwest Florida Water Management
- Zoo Tampa
- Pinellas County Environmental Protection Commission

Additional partnerships and letters of support from within the USF System have been established with Dean Kirchman, Dean of the College of Science and Mathematics in Sarasota-Manatee in addition to Jacqueline Dixon, Dean of the College of Marine Science (CMS). Letters of support can be found in Appendix F. Historically, a close working relationship with CMS and our Biology department has resulted in dual listing their graduate courses with our undergraduate courses. This enabled our students to work with world class faculty from the College of Marine Science. Dean Dixon anticipates extending this collaboration to our Environmental Chemistry students as we dual list our undergraduate courses with their graduate courses. An example of courses identified by Dean Dixon as potential resources for this degree include: OCE 6050 Chemical Oceanography, OCE 6934 Physical Chemistry of Seawater, OCE 6934 CO2 System Analytical Technique, and many others.

IV. Projected Benefit of the Program to the University, Local Community, and State

Use information from Tables 1 and 2 in Appendix A, and the supporting narrative for “Need and Demand” to prepare a concise statement that describes the projected benefit to the university, local community, and the state if the program is implemented. The projected benefits can be both quantitative and qualitative in nature, but there needs to be a clear distinction made between the two in the narrative.

The Environmental Chemistry degree program will be the first of its kind in the State of Florida and all but one state in the Southern United States with a CIP code of (40.0509). While other universities offer concentrations and majors in Environmental Chemistry under the General Chemistry or Other category, this degree program was developed using the IPEDS definition of Environmental Chemistry and guided by the certification standards of the American Chemical Society.

The American Chemical Society (ACS) identified the discipline of Environmental Chemistry as one that is critical to facing some of the most difficult challenges the human race will need to address in our future (American Chemical Society, 2014: https://www.acs.org/content/dam/acsorg/membership/acs/benefits/extra-insights/environmental-chemistry.pdf). This degree program provides students with a remarkable educational opportunity. They will develop skills to investigate the manner in which human activity impacts our air, water and soil and how chemicals introduced by the human race enter the environment. This is not only critical to protecting the environment but also critical to protecting human health. It is expected that job opportunities nationally for Environmental Chemists will increase 11% to 18% between 2016 and 2026, depending on the source of predictions (See Appendix E). This projected increase in the demand for Environmental Chemists exceeds the growth of all other occupations. Bachelor-level employees have an opportunity to earn roughly $70,000 in annual income when they earn a degree that specializes in physical science and environmental science (U.S. Bureau of Labor Statistics, “Occupational Outlook Handbook: Environmental Sciences and Specialists,” online at http://www.bls.gov/ooh/Life-Physical-and-Social-Science/Environmental-scientists-and-specialists.htm). This employment outlook is attributed to the increased public interest in the hazards facing the environment, in addition to the demands on the environment by population growth.

The Educational Advisory Board analysis of the state employment outlook suggests that there were 1,540 openings for bachelor-chemistry professionals in the past 12 months. Local trends revealed that 246 job openings for bachelor-chemistry professionals were posted for Tampa, St. Petersburg and Clearwater over the past 12 months. An additional 273 openings for bachelor-level chemistry professionals were posted in Orlando, Kissimmee and Sanford, Florida over the past 12 months (See Appendix E). The applied skills of an Environmental Chemist are sought in consulting firms, federal, state and local government agencies, industry and academia (American Chemical Society, 2014 https://www.acs.org/content/dam/acsorg/membership/acs/benefits/extra-insights/environmental-chemistry.pdf). Greater research and understanding of the impact of chemicals in the air, water and land is
critical to understanding and resolving some of our greatest challenges in public health. Colleges and universities are hiring an increased number of Environmental Chemists as the demand for new research and understanding of the impact of chemicals in the environment on human health increases (American Chemical Society, 2014 https://www.acs.org/content/dam/acsorg/membership/acs/benefits/extra-insights/environmental-chemistry.pdf).

Several employers have provided letters of support (see Appendix F). The College intends to develop the Environmental Chemistry Advisory Board to support internship opportunities in the community and to encourage regular feedback regarding student skills and curriculum development. This will provide an ongoing feedback loop between the community and the university curriculum.

V. Access and Articulation – Bachelor’s Degrees Only

A. If the total number of credit hours to earn a degree exceeds 120, provide a justification for an exception to the policy of a 120 maximum and submit a separate request to the Board of Governors for an exception along with notification of the program’s approval. (See criteria in Board of Governors Regulation 6C-8.014)

The total number of credit hours to earn a degree in Environmental Chemistry does not exceed 120.

B. List program prerequisites and provide assurance that they are the same as the approved common prerequisites for other such degree programs within the SUS (see link to the Common Prerequisite Manual on the resource page for new program proposal). The courses in the Common Prerequisite Counseling Manual are intended to be those that are required of both native and transfer students prior to entrance to the major program, not simply lower-level courses that are required prior to graduation. The common prerequisites and substitute courses are mandatory for all institution programs listed, and must be approved by the Articulation Coordinating Committee (ACC). This requirement includes those programs designated as “limited access.”

If the proposed prerequisites are not listed in the Manual, provide a rationale for a request for exception to the policy of common prerequisites. NOTE: Typically, all lower-division courses required for admission into the major will be considered prerequisites. The curriculum can require lower-division courses that are not prerequisites for admission into the major, as long as those courses are built into the curriculum for the upper-level 60 credit hours. If there are already common prerequisites for other degree programs with the same proposed CIP, every effort must be made to utilize the previously approved prerequisites instead of recommending an additional “track” of prerequisites for that CIP. Additional tracks may not be approved by the ACC, thereby holding up the full approval of the degree program. Programs will not be entered into the State University System Inventory until any exceptions to the approved common prerequisites are approved by the ACC.

The Environmental Chemistry Degree falls into CIP 40.0509, which does not currently exist in the State University System. In the context of developing this curriculum the stringent pre-requisites of the General Chemistry CIP (40.0501) were adopted in addition to a foundation in environmental science. Students are required to earn a C (not C-) or better in all core courses in the curriculum, approximately 50% of these courses are State Mandated Pre-Requisites. These pre-requisites establish a strong foundation for a General Chemistry degree, essential to an Environmental Chemistry degree:

- CHM 2045 General Chemistry I & CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II & CHM 2046L General Chemistry II Lab
- MAC 2311 Calculus I
- MAC 2312 Calculus II
- CHM 2210 Organic Chemistry I & CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II & CHM 2211L Organic Chemistry II Lab
• PHY 2048 Physics I & PHY 2048L Physics I Lab
• PHY 2049 Physics II & PHY 2049L Physics II Lab

C. If the university intends to seek formal Limited Access status for the proposed program, provide a rationale that includes an analysis of diversity issues with respect to such a designation. Explain how the university will ensure that Florida College System transfer students are not disadvantaged by the Limited Access status. NOTE: The policy and criteria for Limited Access are identified in Board of Governors Regulation 6C-8.013. Submit the Limited Access Program Request form along with this document.

The University does not intend to seek formal Limited Access status for this degree program.

D. If the proposed program is an AS-to-BS capstone, ensure that it adheres to the guidelines approved by the Articulation Coordinating Committee for such programs, as set forth in Rule 6A-10.024 (see link to the Statewide Articulation Manual on the resource page for new program proposal). List the prerequisites, if any, including the specific AS degrees which may transfer into the program.

This program is not an AS-BS capstone.

INSTITUTIONAL READINESS

VI. Related Institutional Mission and Strength

A. Describe how the goals of the proposed program relate to the institutional mission statement as contained in the SUS Strategic Plan and the University Strategic Plan (see link to the SUS Strategic Plan on the resource page for new program proposal).

State University System Strategic Goals (p. 10):

Support students’ development of the knowledge, skills, and aptitudes needed for success in the global society and marketplace.

• The USFSP degree in Environmental Chemistry will support the development of knowledge and skills needed to address the human health and environmental challenges that we will face in the future. Human activity in all forms impacts the water, air and soil. Graduates of this program will be equipped with the knowledge and skills necessary to solve local and global problems of the environment.

Transform and revitalize Florida’s economy and society through research, creativity, discovery, and innovation.

• Students of Environmental Chemistry will be required to develop an undergraduate thesis or complete an internship addressing critical environmental problems. They will be encouraged to conduct research and through innovation and critical thinking propose solutions to these problems. To this end, they will preserve and revitalize Florida’s economic and social environment.

Mobilize resources to address the significant challenges and opportunities facing Florida’s citizens, communities, regions, the state, and beyond.

• The community partnerships with local and state government as well as private industry that students form in the context of internships and advisory boards will mobilize university and private resources to address the environmental challenges that face Florida.

Deliver knowledge to advance the health, welfare, cultural enrichment, and economy through community and business engagement and service.

• The research that will develop as a result of this degree program by both faculty and students will advance our knowledge of the impact of all forms of human activity on the health, welfare,
University of South Florida Systems Strategic Goals:

Develop well educated and highly skilled global citizens through our continuing commitment to student success.
- The degree in Environmental Chemistry is a rigorous academic program that educates students in the foundations of organic, physical, inorganic and environmental chemistry. This program will enable students to become citizens who are able to apply the basic principles of chemistry in finding solutions to critical environmental problems.

High impact research and innovation to change lives, improve health, and foster sustainable societal development and positive societal change.
- As the program grows it is anticipated that both faculty and students will become involved in research and innovation that will improve human health and well-being.

Develop a highly effective, major economic engine, creating partnerships to build a strong and sustainable future for Florida in the global economy.
- Solving problems with the tools available to Environmental Chemists is good for the bottom line. Businesses that can support a sustainable environment are the global businesses that will thrive in the future.

Sound financial management to establish a strong and sustainable economic base in support of USF’s continued economic advancement.
- The close partnership that will develop through the Environmental Chemistry Advisory board between the university and local agencies and businesses will only continue to improve the program in a dynamic environment.

University of South Florida St. Petersburg’s Strategic Goals:

Distinctive Identity.
- The degree in Environmental Chemistry continues to crystalize the USFSP campus as the campus of Sustainability, Environmental and Marine Sciences. This is a degree program that will enable our graduates to “become scholars who lead lives if impact”.

Student Success and Culture.
- It is expected that new Chemistry faculty that share passions in both Sustainability and Environmental Chemistry will actively work with students to promote excellence in both teaching and research.

Strategic Partnerships.
- The Environmental Chemistry Advisory Board will establish strategic partnerships with both government and industry to provide internships, employment and continue to steer this degree program in the direction of the future.

B. Describe how the proposed program specifically relates to existing institutional strengths, such as programs of emphasis, other academic programs, and/or institutes and centers.

The St. Petersburg campus of the University of South Florida is clearly emerging as an institution with unique strengths and exciting potential in the areas of Environmental Science, Sustainability, Marine Science and Business. The emergence of the Joint Institute for the Gulf of Mexico at the USFSP campus is a natural evolution to the unique strengths of the St. Petersburg campus. The introduction of a degree program in Environmental Chemistry builds upon these unique strengths.

The existing partnership with the College of Marine Sciences has enabled our Biology students to enjoy
courses with world-class faculty from CMS through dual-listed courses in our curriculum. Dean Dixon of the College of Marine Sciences has offered additional dual-listing for the Environmental Chemistry degree program in an effort to expand this partnership (See Appendix F).

This is an interdisciplinary program that is developed on a natural science foundation and incorporates both Environmental Science and Business into the curriculum. Students will build a solid educational foundation in Chemistry and develop skills in working with data analysis, big data and machine learning (predictive analytics) in Business and develop knowledge of Environmental policy, environmental law and field methods in Environmental Science and Chemistry. This interdisciplinary set of skills enables graduates of this program to address the growing concern of how human activity impacts not only our soil, water and air but also human health.

C. Provide a narrative of the planning process leading up to submission of this proposal. Include a chronology in table format of the activities, listing both university personnel directly involved and external individuals who participated in planning. Provide a timetable of events necessary for the implementation of the proposed program.

In September, 2016, the Regional Vice Chancellor of Academic Affairs (RVCAA) initiated the Master Academic Planning process at USFSP, to be completed in five phases. During Phase I, each academic unit was invited to use program indicators including student/faculty FTE ratio, FTIC retention in the program, transfer retention in the program, enrollment growth trend over the last three years, graduation rates, SCH for permanent and contingent faculty, graduation rates with excess credit hours, and enrollment growth in under-represented populations, and many others. During Phase II, each unit prepared a list of Strengths, Weaknesses, Opportunities, Threats and a vision of their future direction. Phase III entailed program planning, including a determination regarding whether each program should grow, remain the same, or be revised, based on findings from the preceding phases.

During this time, faculty in the College of Arts and Sciences identified the emerging field of Environmental Chemistry as a degree program that complemented the unique identity of USFSP. In Phase IV of the planning process, the RVCAA working with the campus deans’ composed a draft Master Academic Plan which was thoroughly discussed and revised with significant input from faculty across colleges and disciplines. Ultimately, in Phase V, the final Master Academic Plan was created for USFSP. During the USF System Master Academic Planning process, the USFSP Environmental Chemistry proposal was identified as a priority in Year 2 of the 2018-2019 initiative. With that encouragement, the Chemistry faculty in the College of Arts and Sciences prepared a program pre-proposal for CIP 40.0509.

<table>
<thead>
<tr>
<th>Date</th>
<th>Participants</th>
<th>Planning Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>September &amp; October, 2016</td>
<td>College Dean, Assistant Dean and Chemistry Faculty</td>
<td>In the context of developing the Master Academic Plan (MAP), Institutional Research developed program indicators to review, across disciplines, the feasibility of new academic programs essential to the mission of USFSP. The Dean met with Chemistry faculty to discuss the feasibility of developing an Environmental Chemistry program that is distinct from the general Chemistry program currently offered in Tampa.</td>
</tr>
<tr>
<td>October, November 2016</td>
<td>College Dean, Assistant Dean and Chemistry Faculty</td>
<td>Pre-Proposal: analysis of each program in terms of Strengths, Weaknesses, Opportunities and Threats (SWOT) to identify potential collaborations that offer new degree programs.</td>
</tr>
<tr>
<td>November 2016 to Spring 2017</td>
<td>All college programs, college Deans and RVCAA</td>
<td>Multiple drafts and revisions of the MAP to identify programs that might be developed with existing faculty and resources.</td>
</tr>
<tr>
<td>March &amp; April 2017</td>
<td>College Dean and Chemistry faculty began collaboration to develop Pre-Proposal</td>
<td>Continued conversations regarding he merits of a Chemistry degree with an Environmental Chemistry specialization versus an Environmental Chemistry degree. It was determined that an Environmental Chemistry degree best met the needs of USFSP.</td>
</tr>
</tbody>
</table>
Table 6
Events Leading to Implementation

<table>
<thead>
<tr>
<th>Date</th>
<th>Implementation Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer – Fall 2018</td>
<td>Consultation with USF Office of Decision Support Academic Planning</td>
</tr>
<tr>
<td>Fall, 2018</td>
<td>Communication and outreach to Community Partners to discuss internships, letters of support and membership on the Environmental Chemistry Advisory Board</td>
</tr>
<tr>
<td>November, 2018</td>
<td>College of Arts &amp; Sciences Academic Program Committee approval</td>
</tr>
<tr>
<td>November, 2018</td>
<td>College of Arts &amp; Sciences Dean’s review</td>
</tr>
<tr>
<td>December 5, 2018</td>
<td>USFSP Undergraduate Council review</td>
</tr>
<tr>
<td>December, 2018</td>
<td>Review by Vice-Chancellor for Academic Affairs</td>
</tr>
<tr>
<td>February, 2019</td>
<td>APAC review</td>
</tr>
<tr>
<td>March, 2019</td>
<td>ACE Committee review and approval</td>
</tr>
<tr>
<td>March, 2019</td>
<td>Board of Trustees review and approval</td>
</tr>
<tr>
<td>Spring, 2019</td>
<td>Communications with SACSCOC to determine if the program reflects substantive change</td>
</tr>
<tr>
<td>March 27 &amp; 28, 2019</td>
<td>Board of Governor's staff review and approval for addition to the Academic Program Inventory</td>
</tr>
<tr>
<td>Summer 2019</td>
<td>Pending approval of BOG, final development of Environmental Chemistry Advisory Board</td>
</tr>
<tr>
<td>Summer 2019</td>
<td>Approved program added to the catalog, USF’s electronic systems and marketed</td>
</tr>
</tbody>
</table>

VII. Program Quality Indicators - Reviews and Accreditation

Identify program reviews, accreditation visits, or internal reviews for any university degree programs related to the proposed program, especially any within the same academic unit. List all recommendations and summarize the institution's progress in implementing the recommendations.

The University of South Florida St. Petersburg (USFSP) is currently accredited by the Southern Association of Colleges and Schools and Commission on Colleges (SACSCOC). If the final program is approved by the Board of Governors staff, submission of a Substantive Change to SACSCOC will be required. If the University of South Florida’s consolidation has been completed at the time of the program approval, the program may not represent a Substantive Change because USF has a General Chemistry degree. In this case, SACSCOC will be notified of the degree offering with required documentation as a Non-substantive Change.

Formal program reviews take place at the University of South Florida on a 7-year cycle. These program reviews require a substantial self-study, as well as an external evaluation and recommendations by outside reviewers from peer institutions.

The proposed program will undergo annual Academic learning Compact reviews by the Program Director and/or Chair to assess student learning outcomes (See Appendix C for Academic Learning Compacts). Additional institutional SACSCOC accreditation reviews ensure appropriate faculty
credentialing, ALC compliance and compliance with all other requirements characteristic of a quality higher education program.

As the program matures, it is anticipated that faculty will seed certification from the American Chemical Society (ACS); all of the required courses for ACS certification are in the curriculum.

VIII. Curriculum

A. Describe the specific expected student learning outcomes associated with the proposed program. If a bachelor’s degree program, include a web link to the Academic Learning Compact or include the document itself as an appendix.

(Please see Appendix C)

Educational Objectives of the Program:

1. Graduates will be able to demonstrate strong interdisciplinary knowledge in Chemistry, Environmental Science and Business to solve critical environmental problems in government, industry, private consultation and education.
2. Graduates will apply their interdisciplinary knowledge of physical science in Chemistry, Environmental Science and Business to foster communications across disciplinary boundaries.
3. Graduates will make a contribution to society through innovation in the field by advancing new ideas and knowledge in the combined disciplines of chemistry, environmental science and business.

Expected Student Learning Outcomes:

1. **Discipline Specific Knowledge and Skills:**
   - Outcome 1: Demonstrate knowledge (understanding and retention) of the main sub-disciplines of Chemistry – Organic, Analytical, Inorganic, Physical, and Environmental Chemistry – and their application to environmental issues
   - Outcome 2: Laboratory skills: Demonstrate mastery of Chemistry and Environmental Chemistry laboratory skills by performing valid, accurate, efficient and safe laboratory procedures and techniques in – quantitative analytical and physical measurements; synthesis of molecules; instrumental methods of analysis and structure determination,

2. **Critical Thinking Skills:**
   - Outcome 1: Demonstrate critical thinking skills in – evaluating and interpreting scientific data; formulating and testing scientific hypotheses; generating appropriate questions; gathering relevant information through review of published literature and by experimentation and making scientifically-valid conclusions; applying mathematical principles to solve quantitative problems in Environmental Chemistry; making the connections between Environmental Chemistry and other disciplines

3. **Communication Skills:**
   - Outcome 1: Demonstrate the ability to – write clearly and effectively to produce a well-organized and well-developed paper presenting results of meta-analyses of published literature or of experimental studies consistent with accepted practices in Chemistry and Environmental Chemistry; articulate scientific information and/or experimental results clearly and effectively through formal presentations to peers and faculty.
4. Civic Engagement:

- Outcome 1: Demonstrate an ability to apply methods in Chemistry to deal with human concerns related to Environmental issues through participation in individual research, independent study or internships

B. Describe the admission standards and graduation requirements for the program.

Students applying to the Environmental Chemistry degree program are expected to meet the University of South Florida admission standards as noted on USF’s “Admissions” website (https://www.usfsp.edu/admissions/). Because this program will be launched very near the implementation phase of the USF consolidation process the admission standards will be implemented system-wide.

Graduation requirements include the minimum requirements for USF and the College of Arts and Sciences:

- Minimum of 120 earned semester hours with overall 2.0 Grade Point Average (GPA), including all courses attempted within the USF System;
- A transfer student must have a 2.0 GPA or higher when combined with all work attempted at other institutions;
- Satisfactory completion of writing, computation (6a-10.030) and civic literacy (8.006) course requirements;
- A minimum of C (not C-) or greater in all core courses in the Environmental Chemistry curriculum and an overall GPA of 2.5 or greater in all core course requirements;
- Earn a minimum of 42 semester hours of upper-level work (courses numbered 3000 and above);
- Complete all General Education Liberal Arts Requirements;
- Complete all program requirements; and
- Be recommended for graduation by the Dean of the College of Arts and Sciences

C. Describe the curricular framework for the proposed program, including number of credit hours and composition of required core courses, restricted electives, unrestricted electives, thesis requirements, and dissertation requirements. Identify the total numbers of semester credit hours for the degree.

The curricular framework is interdisciplinary in nature. The degree program will be based on a solid foundation in General Chemistry, characteristic of all degrees in General Chemistry in the SUS. Additional coursework in the Core Curriculum includes a two-semester sequence of Environmental Chemistry, emphasizing the chemistry of water, soil and air, providing students with applied skills such as the evaluation of contaminants. Core curriculum outside of Chemistry and Environmental Chemistry includes Information Systems Management providing skills in machine learning and big data analysis. Nine credit hours of electives in Business and Environmental Science or Chemistry are also required. This interdisciplinary program reflects an important partnership between Chemistry, Business and Environmental Science.

Students must complete 56 credit hours in the Environmental Chemistry major. The Core Curriculum includes 44 credit hours for the degree. Eighteen (18) credit hours included in the Core Curriculum are State Mandated Prerequisites. An additional 12 credit hours of Major Electives are in Business, Environmental Science or Chemistry.

<p>| Required Courses for Environmental Chemistry: 56 Total Credits (including Major Electives) |
|--------------------------------------|----------------|---------|----------|
| Course Prefix &amp; Number | Course Title | Credits | Pre-requisites |
| CHM 2045 &amp; CHM 2045L | General Chemistry I &amp; Lab | 3 + 1 | MAC 1105 |
| CHM 2046 &amp; CHM 2046L | General Chemistry II &amp; Lab | 3 + 1 | CHM 2045 &amp; Lab |
| CHM 2210 &amp; CHM 2210L | Organic Chemistry I &amp; Lab | 3 + 2 | CHM 2046 &amp; Lab |</p>
<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 3025</td>
<td>Principles of Management</td>
<td>3</td>
<td>Junior Standing</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Macroeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COP 2030</td>
<td>Programming Concepts</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EVR 2001 &amp; EVR 2001L</td>
<td>Introduction to Environmental Science &amp; Lab</td>
<td>3 + 1</td>
<td>None</td>
</tr>
<tr>
<td>EVR 2861</td>
<td>Introduction to Environmental Policy</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EVR 4114</td>
<td>Climate Change</td>
<td>3</td>
<td>EVR 2001</td>
</tr>
<tr>
<td>POS 3697</td>
<td>Environmental Law</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHM 4970</td>
<td>Undergraduate Research</td>
<td>1 to 3</td>
<td>None</td>
</tr>
<tr>
<td>EVR 4051</td>
<td>Environmental Field Methods</td>
<td>3</td>
<td>STA 2023</td>
</tr>
<tr>
<td>CHM 4940 (new to SCNS)</td>
<td>Applied Chemistry Internship</td>
<td>1 to 3</td>
<td>Juniors or Seniors Only</td>
</tr>
<tr>
<td>CHM 4130C</td>
<td>Methods of Instrument Analysis</td>
<td>4</td>
<td>CHM 4410, CHM 4060</td>
</tr>
<tr>
<td>CHM 4060</td>
<td>Use of Chemical Literature</td>
<td>1</td>
<td>CHM 2045, CHM 2046, CHM 2210, CHM 2211</td>
</tr>
</tbody>
</table>

Additional credit hours in the program include 16 credits in State Mandated Prerequisites:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td>4</td>
<td>Take as Gen. Ed.</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
<td>4</td>
<td>PHY 2048 &amp; PHY 2048L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physics I &amp; Lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 + 1 Credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Take as Gen. Ed.</td>
</tr>
</tbody>
</table>

Ten (10) general electives are required, and additional Chemistry and Biology courses are recommended:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 4932</td>
<td>Selected topics in Chemistry (1-3 cr.)</td>
<td>1 to 3</td>
<td>3 + 1 Credits</td>
</tr>
<tr>
<td>BSC 2010 + Lab</td>
<td>Biology I: Cellular Biology &amp; Lab (3 + 1 cr.)</td>
<td>3 + 1</td>
<td>3 + 1 Credits</td>
</tr>
<tr>
<td>BSC 2011 + Lab</td>
<td>Biology II: Diversity &amp; Lab (3 + 1 cr.)</td>
<td>3 + 1</td>
<td>3 + 1 Credits</td>
</tr>
<tr>
<td>MET 4002C</td>
<td>Climatology (4 cr.)</td>
<td>4</td>
<td>4 Credits</td>
</tr>
<tr>
<td>BCH 3023</td>
<td>Introductory Biochemistry (3 cr.)</td>
<td>3</td>
<td>3 Credits</td>
</tr>
<tr>
<td>BCH 3023L</td>
<td>Basic Biochemistry Lab (2 cr.)</td>
<td>2</td>
<td>2 Credits</td>
</tr>
<tr>
<td>GEO 2200 + Lab</td>
<td>Intro. To Physical Geography + Lab (3 + 1 cr.)</td>
<td>3 + 1</td>
<td>3 + 1 Credits</td>
</tr>
<tr>
<td>MET 4012C</td>
<td>Meteorology (4 cr.)</td>
<td>4</td>
<td>4 Credits</td>
</tr>
<tr>
<td>OCE 2001</td>
<td>Introduction to Oceanography</td>
<td>3</td>
<td>3 Credits</td>
</tr>
</tbody>
</table>

Thirty-Six (40) General Education credits some of which overlap with State Mandated Prerequisites and Core Curriculum. Four additional credit hours in the General Education curriculum are due to several required labs and 4-credit hour math courses:

<table>
<thead>
<tr>
<th>General Education Curriculum (40 Credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. English (6 Credits)</td>
</tr>
<tr>
<td>ENC 1101 English Composition I</td>
</tr>
<tr>
<td>ENC 1102 English Composition II</td>
</tr>
<tr>
<td>II Mathematics (6 Credits)</td>
</tr>
</tbody>
</table>

19
MAC 1105 College Algebra 3 Credits  
MAC 2311 Calculus I 4 Credits  

III. Natural Science (6 Credits)  
CHM 2045 & Lab General Chemistry I & Lab 3 + 1 Credits  
PHY 2048 & Lab General Physics I & Lab 3 + 1 Credits  

IV. Humanities (6 Credits)  
Open Selection 3 Credits  
Open Selection 3 Credits  

V. Social Sciences (6 Credits)  
ECO 2013 Principles of Microeconomics 3 Credits  
POS 2041 or AMH 2020 Civic Literacy Requirement 3 Credits  

General Education Free Electives (7 Credits)  
STA 2023 (GE Elective) Introductory Statistics 3 Credits  
MAC 1147 Pre-Calculus 4 Credits  

Nine (9) hours of USFSP Exit Requirements complete the degree (Following USF consolidation these hours will no longer be required and redistributed to General Electives and Major Electives):  

<table>
<thead>
<tr>
<th>USFSP Exit Requirements (9 Credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Major Works &amp; Major Issues:</td>
<td></td>
</tr>
<tr>
<td>GEO 4372 (Required) Global Conservation (6A)</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3302 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>BSC 4057 Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4027 Wetlands Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4379 Geographical Perspectives on Environment</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4734 Beaches &amp; Coastal Environments</td>
<td>3</td>
</tr>
<tr>
<td>II. Literature &amp; Writing Pick 3 Credits</td>
<td></td>
</tr>
</tbody>
</table>

D. Provide a sequenced course of study for all majors, concentrations, or areas of emphasis within the proposed program.

The following sequenced course of study is also nearly identical to the FUSE plan also developed for this degree program (see Appendix D). The focus of this plan is to enable students to seamlessly move from the Florida College system into the USF major in Environmental Chemistry:

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 English Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3</td>
<td>ENC 1102 English Composition II</td>
</tr>
<tr>
<td>XXX XXXX Humanities</td>
<td>3</td>
<td>MAC 1147 Pre-Calculus</td>
</tr>
<tr>
<td>ECO 2013 Principles of Macroeconomics</td>
<td>3</td>
<td>CHM 2045 General Chemistry I</td>
</tr>
<tr>
<td>XXX XXXX General Elective</td>
<td>3</td>
<td>CHM 2034L General Chemistry I Lab</td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Semester Credit Hours:</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311 Calculus I</td>
<td>4</td>
<td>MAC 2312 Calculus II</td>
</tr>
<tr>
<td>CHM 2046 General Chemistry II</td>
<td>3</td>
<td>STA 2023 Introductory Statistics</td>
</tr>
<tr>
<td>CHM 2046L General Chemistry II Lab</td>
<td>1</td>
<td>PHY 2048 General Physics I</td>
</tr>
<tr>
<td>XXX XXXX Humanities General Education</td>
<td>3</td>
<td>PHY 2048L General Physics I Lab</td>
</tr>
<tr>
<td>XXX XXXX General Elective (See Recommendations)</td>
<td>3</td>
<td>XXX XXXX General Elective (See Recommendations)</td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2210 Organic Chemistry I</td>
<td>3</td>
<td>CHM 2011 Organic Chemistry II</td>
</tr>
<tr>
<td>CHM 2210L Organic Chemistry I Lab</td>
<td>2</td>
<td>CHM 2011L Organic Chemistry II Lab</td>
</tr>
<tr>
<td>ISM 4546 Machine Learning</td>
<td>3</td>
<td>PHY 2049 General Physics II</td>
</tr>
<tr>
<td>XXX XXXX General Elective (See Recommendations)</td>
<td>2</td>
<td>PHY 2049L General Physics II Lab</td>
</tr>
<tr>
<td>XXX XXXX Environmental Chemistry Major Elective</td>
<td>3</td>
<td>XXX XXXX Environmental Chemistry Major Elective</td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 3120C Elementary Analytical Chemistry &amp; Lab</td>
<td>4</td>
<td>CHM 4411 Physical Chemistry II</td>
</tr>
<tr>
<td>CHM 4410 Physical Chemistry I</td>
<td>4</td>
<td>CHM 4081 Environmental Chemistry II</td>
</tr>
<tr>
<td>CHM 4410L Physical Chemistry I Lab</td>
<td>1</td>
<td>CHM 3610 Intermediate Inorganic Chemistry</td>
</tr>
<tr>
<td>CHM 4080 Environmental Chemistry I</td>
<td>3</td>
<td>CHM 3610L Intermediate Inorganic Chemistry Lab</td>
</tr>
</tbody>
</table>
### SUMMER SEMESTERS (9 Hours)

<table>
<thead>
<tr>
<th>Summer Session 1</th>
<th>Summer Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 4372 Global Conservation (recommended) 3</td>
<td>XXX XXXX Environmental Exit 3</td>
</tr>
<tr>
<td></td>
<td>XXX XXXX Literature &amp; Writing 3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours: 3</td>
<td>Total Credit Hours: 6</td>
</tr>
</tbody>
</table>

#### E. Provide a one- or two-sentence description of each required or elective course.

**BSC 2010 Biology I - Cellular Processes (3)**
CR: BSC 2010L PR: CHM 1045/C- or CHS 2440/C.
An analysis of biological systems at the cellular and subcellular levels: cell structure and function, respiration, photosynthesis, mitosis and meiosis, genetics and gene expression.

**BSC 2010L Biology I Cellular Processes Laboratory (1)**
Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

**BSC 2011 Biology II - Diversity (3)**
An analysis of biological systems at the organismal level: evolution, speciation, history of life, and ecology. Lecture only.

**BSC 2011L Biology II Diversity Laboratory (1)**
Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as, plant and animal development will be stressed.

**BCH 3023 Introductory Biochemistry (3)**
Introduction to the chemistry and intermediary metabolism of biologically important substances.

**BCH 3023L Basic Biochemistry Lab (2)**
CR: BCH 3023.
Practical work in determination and characterization of important biomolecules.

**BSC 4057 Environmental Issues (3)**
Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.

**CHM 2045 General Chemistry I (3)**
PR: 530 SAT Quantitative score or completion of MAC 1105 College Algebra with a C or better AND one year of high school chemistry or completion of CHM 2023 with a grade of C or better.
Principles and applications of chemistry including properties of substances and reactions, thermochemistry, atomic-molecular structure and bonding, periodic properties of elements and compounds.

**CHM 2045L General Chemistry I Laboratory (1)**
CR: CHM 2045. Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

**CHM 2046 General Chemistry II (3)**
PR: CHM 1045 or 1045C or CHM 2045 or 2045C or 2440, 2440C (minimum grade C)
Principles and applications of chemistry including solutions, chemical thermodynamics, kinetics, equilibria, aqueous chemistry, electrochemistry, and nuclear chemistry.
CHM 2046L General Chemistry II Laboratory (1)  
CR: CHM 2045, PR: CHM 2045L  
Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2210 Organic Chemistry I (3)  
PR: CHM 1046 or 1046C or CHM 2046 and CHM 2046L or 2046C (minimum grade C).  
Fundamental principles of organic chemistry. Lecture.

CHM 2210L Organic Chemistry Laboratory I (2)  
CR: CHM 2200 or CHM 2210.  

CHM 2211 Organic Chemistry II (3)  
PR: prerequisite CHM 2210 or 2210C (minimum grade C).  
Continuation of organic chemistry. Lecture.

CHM 2211L Organic Chemistry II Lab (2)  
CR: CHM 2211, PR: CHM 2210L,  
Continuation of organic chemistry laboratory.

CHM 3120C Elementary Analytical Chemistry (4)  
PR: (CHM 1046/C AND CHM 1046L/C) OR (CHM 2046/C AND CHM 2046L/C)  
Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

CHM 3610: Intermediate Inorganic Chemistry (3)  
CR: CHM 3610L, PR: CHM 2046, CHM 2046L.  
Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

CHM 3610L: Intermediate Inorganic Chemistry Laboratory (1)  
CR: CHM 3610, PR: Two semesters of general chemistry lecture and lab.  
Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metals chemistry, structural consequences and spectroscopic methods.

CHM 4060: Use of Chemical Literature (3)  
PR: CHM 2045, CHM 2046, CHM 2010, CHM 2011  
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities are discussed.

CHM 4410: Physical Chemistry I (4)  
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049  
Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.

CHM 4410L: Physical Chemistry Laboratory (1)  
CR: CHM 4410  
A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHM 4130C: Methods of Instrument Analysis (4)  
PR: CHM 4060, CHM 4410  
Theory and application of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects. Lecture – Lab.
CHM 4411: Physical Chemistry II (4)
PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049
Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented. The course includes a recitation.

CHM 4080: Environmental Chemistry I (3) (Newly approved)
PR: CHM 2046, CHM 2046L
Application of geochemical principles to environmental issues. Topics include but are not limited to: contaminants in water, soil and air. Environmental methods and instrumentation, quality assurance, and quality control in environmental analysis; principles of toxicology; risk assessment and risk management.

CHM 4081: Environmental Chemistry II (3) (Newly approved)
PR: CHM 2211, CHM 2211L
Overview of the sources of organic matter in aquatic systems, air and soil. Attention will also be devoted to anthropogenic (xenobiotic) organic molecules. Discussion of how analytical techniques such as 13C NMR, mass spectroscopy, and capillary electrophoresis provide useful organic biogeochemical information.

CHM 4932 Selected Topics in Chemistry (1-3)
PR: Instructor Permission.
The course content will depend on the interest of faculty members and student demand.

CHM 4940 Applied Chemistry Internship (1 - 3) (Newly proposed)
PR: Junior or senior standing
A course to oversee and guide student’s internship experience. Internship will be coordinated with a mentor external to the course. Students will meet to discuss internship experiences and progress, and present results.

CHM 4970: Undergraduate Research (1-3)
PR: Instructors Permission. S/U Grade System
Specialized independent research determined by the student’s needs and interests. The written contract required by the College of Arts & Sciences specifies the regulations governing independent research.

COP 2030 Programming Concepts (3)
PR: None
This course covers basic programming concepts using the Python language for implementation and developing problem solving skills.

ECO 2013 Economic Principles (Macroeconomics) (3)
Introduction to the theory of income determination with emphasis on monetary and fiscal policies. Objectives of full employment, price stability, economic growth and balance of payments stability.

ECO 2023 Economic Principles (Microeconomics) (3)
Introduction to the theory of price determination. How an economy decides what to produce, how to produce, and how to distribute goods and services.

ECP 3302 Environmental Economics (3)
PR: ECO 2023. An economic analysis of environmental issues. The economics of resource use and pollution control are examined using the concepts of externalities, cost-benefit analysis, public goods, and property rights.

EVR 2001 Introduction to Environmental Science (3)
An introductory lecture course linking the human and physical biological world. The course will develop an understanding of population and resource interactions.
EVR 2001L Environmental Science Lab (1)
A laboratory course linking the human and physical/biological world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.

EVR 2861 Introduction to Environmental Policy (3)
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.

EVR 4027 Wetland Environments (3)
Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.

EVR 4051 Environmental Field Methods (3)
PR: STA 2023 or QMB 2100
This course will provide an overview of aspects of conducting environmental research, field experience, the critical analysis of environmental data, and learning the fundamentals of producing a scientifically sound report.

EVR 4114 Climate Change (3)
PR: EVR 2001
The objective is to provide an understanding of the scientific principles pertaining to global and regional climate change. Both mechanisms causing the change and human impacts on climate will be examined.

GEO 2200 Introduction to Physical Geography (3)
This course explores the principles of physical geography, maps; earth sun relationships, meteorological, hydrological, pedagogical, Aeolian, and glacial processes, and resulting landforms.

GEO 2200L Introduction to Physical Geography Lab (1)
CR: GEO 2200
Laboratory portion of Introduction to Physical Geography (GEO 2200).

GEO 4372 Global Conservation (3)
The distribution, exploitation, and conservation of physical and human resources, ecology.

GEO 4379 Geographic Perspectives on Environment (3)
PR: GEA 2000 /C
This course examines human ideas about the natural environment and the fundamental character of the human-nature relationship across space and time through a survey of literature (geography, environmental history, ethics) on environmental perspectives.

GLY 4734 Beaches and Coastal Environments (3)
A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.

ISM 4546: Machine Learning (Predictive Analytics) (3) (to be vetted by College of Business)
PR: STA 2023
This course is an introduction to the concepts and principles of data mining. The course enables prospective marketers, data analysts, and entrepreneurs to extract useful information from large data sets and discover trends and patterns using a state-of-the-art data mining software program.
MAC 2311 Calculus I (4)
PR: (C (2.0) or better in MAC 1114 and C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or 650 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score and knowledge of trigonometry. Differentiation, limits, differentials, extremes, indefinite integral. No credit for students with credit in MAC 2233 or MAC 2243 or MAC 2311.

MAC 2312 Calculus II (4)
PR: MAC 2311/C. No credit for students with credit in MAC 2242 or MAC 2282.
Anti-derivatives, the definite integral, applications, series, log, exponential and trigonometry functions.

MAN 3025 Principles of Management (3)
PR: Junior standing.
Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

MET 4002C Climatology (4)
PR: GEO 2200
An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world. This course includes several integrated lab investigations.

MET 4012C Meteorology (4)
PR: GEO 2200
The earth’s atmosphere and its processes; weather forecasting and analysis; instrumentation. Lecture/lab.

OCE 2001 Introduction to Oceanography
This is a class in basic oceanography covering chemical (what is the sea made of), physical (tides, currents, waves), geological (ocean floor and coasts) and biological (all life in the oceans) aspects, and their interactions.

PHY 2048 General Physics I (3)
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 2048 courses.
First semester of a two semester sequence of calculus-based general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) for physics majors and engineering students.

PHY 2048L General Physics I Laboratory (1)
PR: MAC 2281 or MAC 2311. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2053L and PHY 2048L courses.
First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.

PHY 2049 General Physics II (3) AS PHY
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY2054 PHY 2054 and PHY 2049 courses. Second semester of general physics and laboratory for physics majors and engineering students.

PHY 2049L General Physics II Laboratory (1)
PR: MAC 2282 or MAC 2312, PHY 2048, PHY 2048L. Must be taken concurrently with lecture and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054L PHY 2054L and PHY 2049L courses. Second semester of general physics and laboratory for physics majors and
POS 3697 Environmental Law (3)
Examines some of the major issues involving environmental law. Specially, the course provides a survey and analysis of statutes, both state and federal, regulating water, air, and soil pollution, and resource conservation and recovery. It will also address questions pertaining to problems of implementation, interpretation, enforcement, and development of environmental laws.

STA 2023 Introductory Statistics I (3)
PR: C (2.0) or better in High School Algebra or Elementary Algebra CPT score of 72 or better.

F. For degree programs in the science and technology disciplines, discuss how industry-driven competencies were identified and incorporated into the curriculum and indicate whether any industry advisory council exists to provide input for curriculum development and student assessment.

Educational Advisory Board (EAB) provided a Market Analysis in 2017 to address the need, demand and industry-driven competencies identified by employers (see Appendix E). In addition to a strong foundation in Chemistry, the top skills sought in the employment market included knowledge of Environmental Science, Policy & Law, Business Management and basic computer skills in data analytics (see Appendix E). These industry-driven competencies were incorporated into the curriculum as illustrated by core and elective courses such as: Machine Learning (Predictive Analytics), Microeconomics, Principles of Management and Environmental Science, Policy and Law. The interdisciplinary nature of the present degree proposal integrates courses in all of these areas to address employers’ need.

Several employers have provided letters of support (see Appendix F). The College has identified individuals in local government and industry as early members of the Environmental Chemistry Advisory Board. It is anticipated that member agencies of the Environmental Chemistry Advisory Board will support internship opportunities in the community and will provide regular feedback regarding student skills and curriculum development. This will represent a strong collaboration between the community and the University.

G. For all programs, list the specialized accreditation agencies and learned societies that would be concerned with the proposed program. Will the university seek accreditation for the program if it is available? If not, why? Provide a brief timeline for seeking accreditation, if appropriate.

Substantive change approval will be requested from the Southern Association of Colleges and Schools and Commission on Colleges (SACSCOC) immediately upon program approval from the Board of Trustees. Program certification is available through the American Chemical Society (ACS). This is a process that can take several years and will not begin until the USF System consolidation is complete. In the context of consolidation the program organization and administrative home for Environmental Chemistry degree may also change, this will impact the timeframe for ACS certification: (https://www.acs.org/content/acs/en/about/governance/committees/training/acs-guidelines-supplements.html?_ga=2.146426743.2127920837.1538413581-1134229337.1537722791 ).

H. For doctoral programs, list the accreditation agencies and learned societies that would be concerned with corresponding bachelor’s or master’s programs associated with the proposed program. Are the programs accredited? If not, why?

Not Applicable. This is not a doctoral program.
I. Briefly describe the anticipated delivery system for the proposed program (e.g., traditional delivery on main campus; traditional delivery at branch campuses or centers; or nontraditional delivery such as distance or distributed learning, self-paced instruction, or external degree programs). If the proposed delivery system will require specialized services or greater than normal financial support, include projected costs in Table 2 in Appendix A. Provide a narrative describing the feasibility of delivering the proposed program through collaboration with other universities, both public and private. Cite specific queries made of other institutions with respect to shared courses; distance/distributed learning technologies, and joint-use facilities for research or internships.

This program will be offered on the University of South Florida St. Petersburg campus in a face-to-face format (90%) and online format (10%).

IX. Faculty Participation

A. Use Table 4 in Appendix A to identify existing and anticipated full-time (not visiting or adjunct) faculty who will participate in the proposed program through Year 5. Include (a) faculty code associated with the source of funding for the position; (b) name; (c) highest degree held; (d) academic discipline or specialization; (e) contract status (tenure, tenure-earning, or multi-year annual [MYA]); (f) contract length in months; and (g) percent of annual effort that will be directed toward the proposed program (instruction, advising, supervising internships and practica, and supervising thesis or dissertation hours).

Full-time faculty who will teach in the Environmental Chemistry degree program can be found in Appendix A, Table 4. The faculty have both the breadth and depth of knowledge that enable them to provide the instruction for all courses within the major. They include:

- Henry A. Alegria, Ph.D., Associate Professor, Environmental Science and Chemistry
- Yasin F. Elshorbany, Ph.D., Assistant Professor, Chemistry
- John P. Osegovic, Ph.D., Instructor I, Chemistry
- Madhu Pandey, Ph.D., Instructor I, Chemistry
- XueFeng (Bob) Wang, Ph.D., Instructor, Chemistry
- Varol O. Kayhan, Ph.D., Associate Professor, Information Systems and Decision Sciences

We will also hire a new Tenure-track Chemistry Professor, funded from an existing vacant line, who will be a generalist and capable of teaching a wide range of courses in the curriculum.

Additional faculty resources are available through our partnership with the College of Marine Sciences. Dean Dixon of CMS has offered an opportunity to dual-list their graduate courses with undergraduate courses in the Environmental Chemistry degree program. These courses offer our students the educational opportunity to work with world-class faculty in areas such as Chemical Oceanography, Biogeochemistry, Physical Chemistry of Seawater, Organic Geochemistry and many others. Faculty include distinguished researchers such as:

- Kristen Buck, Ph.D., Associate Professor, working with biogeochemical cycling of trace metals in marine ecosystems.
- Robert H. Byrne, Ph.D. Professor, elected as a Fellow of the American Geophysical Union for his contributions to the understanding of ocean acidification.
- David Hollander, Professor, Chemical Oceanography, researching the influence of climate change on biogeochemical cycling of carbon, nitrogen and other biolimiting elements.

B. Use Table 2 in Appendix A to display the costs and associated funding resources for existing and anticipated full-time faculty (as identified in Table 4 in Appendix A). Costs for visiting and adjunct faculty should be included in the category of Other Personnel Services (OPS). Provide a narrative summarizing projected costs and funding sources.
As described in Section III A. and reported in Table 2-A, the proposed degree program in Environmental Chemistry will be based on reallocated funds. Salary and benefits of existing faculty members, proportional to their teaching effort, will be reallocated to the degree program totaling $143,302 in Year 1 and will remain constant in Year 5. We have been approved to hire one full-time Instructor of Chemistry in the first year with a salary of $74,250 including fringe benefits. The new hire will be based on an existing, vacant line.

An additional cost of $6,000.00 in adjunct salaries has been estimated for Year 1 with a increased cost of $12,000.00 in Year 5 as enrollment increases.

C. Provide in the appendices the abbreviated curriculum vitae (CV) for each existing faculty member (do not include information for visiting or adjunct faculty).

Curriculum Vitae are included in Appendix G

D. Provide evidence that the academic unit(s) associated with this new degree have been productive in teaching, research, and service. Such evidence may include trends over time for average course load, FTE productivity, student HC in major or service courses, degrees granted, external funding attracted, as well as qualitative indicators of excellence.

The Chemistry faculty have provided service courses in General Chemistry, Organic Chemistry and Analytical Chemistry to the General Education program, the Environmental Science and the Biology programs. As students’ interest in the field of Chemistry grew, USFSP launched a Chemistry minor in the 2017-2018 academic year. Since that time, there has been a significant increase in the number of students formally declared in the Chemistry minor. Figure 2 illustrates the growth in the number of Chemistry minors certified over the very brief period of time the minor has been available to students:

Even in the context of challenging transitions, the Chemistry faculties have proven to be highly productive in terms of teaching, research, and service.

Teaching:
Student credit hour (SCH) productivity in teaching ranges from 2,500 to 3,000 in Chemistry lectures alone across academic years. The current service courses offered focused primarily on General Chemistry, Organic Chemistry and Analytical Chemistry. Current faculty have expertise and experience in teaching Inorganic Chemistry, Physical Chemistry, History of Chemistry, Instrumental Methods, Environmental Chemistry and Atmospheric Chemistry at other national and international universities. Faculty have
distinguished themselves as educators by receiving the Chancellor’s Award for Teaching Excellence, and Fulbright Scholarships. In addition to supervising Honor’s theses, faculty are actively involved in supervision of dozens of undergraduate research projects, master’s theses at USFSP and doctoral theses from USF Tampa.

Research:
Faculty have been awarded numerous grants ranging from small, internal and local grants of $20,000 to National Science Foundation educational grants of well over $500,000 for the STREAMS program in collaboration with the College of Marine Science. Dr. Osegovic has three U.S. Patents, while Dr. Alegria and Dr. Pandey share one U.S. Patent. Faculty have a wide range of book chapters and published articles in distinguished journals ranging from research on Arctic land permafrost and sea ice to PCB and PBDE’s contamination in the Tampa Bay air.

Service:
Dr. Elshorbany provides service to the scientific community as a professional reviewer to journals such as *Atmospheric Chemistry and Physics, Atmospheric Environment, Journal of Geophysical Research, Environmental Science* and *Pollution Research and Environmental Science and Technology*. Dr. Alegria provides international and national consultation on the fate and transport of pollutants in air, soil and water on sensitive ecosystems and on human health. He has offered these services to the countries of Belize, Puerto Rico, and Turkey.

The faculty are a community of educators and scholars who have been dedicated to serving our students and encouraging undergraduate research. The new degree program offers them an opportunity to develop into a cohesive administrative unit.

X. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5. Provide the total number of volumes and serials available in this discipline and related fields. List major journals that are available to the university’s students. Include a signed statement from the Library Director that this subsection and subsection B have been reviewed and approved.

Library Overview:

The Nelson Poynter Memorial Library, University of South Florida St. Petersburg (USFSP), houses an extensive collection of materials that supports the educational, research, and service missions of USF St. Petersburg. USFSP faculty, staff, and students have on-site access to the Poynter Library’s collection of over 221,620 items, including monographs, current periodical and serial subscriptions, newspaper subscriptions, and audiovisual titles, as well as to the shared electronic resources of the USF System (a Carnegie Research 1 doctoral institution). Electronic resources of the USF System include access to more than 1.6 million e-books, over 50,000 journal titles, over 28,000 streaming videos, and over 900 aggregator databases containing e-books, journal articles, magazine articles, newspaper articles, streaming video, audio files, and still images. Access to subscribed electronic resources is available remotely 24/7.

As a result of the UBorrow agreement between USF and the other Florida state universities and colleges, USFSP students and faculty have rapid access to nearly 20 million additional books. USFSP students and faculty can also take advantage of a well-regarded interlibrary loan (ILL) service, which will quickly obtain items not held by Florida state university and college libraries.

Databases Specializing in Environmental Chemistry:

Specialized discovery databases accessible to USFSP students and faculty related to environmental chemistry include:

- Corrosion Abstracts
- Environmental Index
• Index Chemicus
• Pollution Abstracts
• ProQuest Environmental Science Collection
• Reaxys
• SciFinder Scholar
• Toxicology Abstracts
• Water Resources Abstracts

**Multidisciplinary Databases:**

Additional content related to environmental chemistry issues can be found in the following indices and full-text databases covering multidisciplinary sciences:

• Applied Science & Technology Source
• Data Citation Index
• Elsevier ScienceDirect
• General Science Full Text
• GEOBASE
• GeoRef
• Inspec (Engineering Village)
• Scitation
• SpringerLink
• Web of Science

Other notable peer-reviewed journals in the areas of environmental chemistry that are available to USF faculty and students include:

• *Advances in Environmental Chemistry*
• *Bioresource Technology*
• *Chemistry and Biodiversity*
• *Chemistry and Ecology*
• *ChemSusChem*
• *Current Opinion in Green and Environmental Chemistry*
• *Environmental Chemistry Letters*
• *International Journal of Environmental Analytical Chemistry*
• *Isotopes in Environmental and Health Studies*
• *Journal of Water Chemistry and Technology*
• *SAR and QSAR in Environmental Research*
• *Toxicological & Environmental Chemistry*
• *Trends in Environmental Analytical Chemistry*

An examination of the USF Library Catalog for books on the targeted subject heading of “environmental chemistry” indicates:

Print book titles: 71

<table>
<thead>
<tr>
<th>EBook titles and chapters:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elsevier Science</strong></td>
</tr>
<tr>
<td>Wiley books &amp; reference works</td>
</tr>
<tr>
<td>ProQuest EBook Central</td>
</tr>
<tr>
<td>Springer</td>
</tr>
<tr>
<td>Taylor and Francis</td>
</tr>
<tr>
<td>Project Muse</td>
</tr>
</tbody>
</table>
B. Describe additional library resources that are needed to implement and/or sustain the program through Year 5. Include projected costs of additional library resources in Table 2 in Appendix A. Please include the signature of the Library Director in Appendix B.

The budget has allocated an additional $7,000 in years one and five for additional library resources. A large portion of the USF Libraries’ budget supports the continuation of electronic resources. Environmental chemistry, environmental toxicology, and the broader chemistry and environmental science disciplines are well represented throughout the USF Libraries’ electronic journal subscriptions.

C. Describe classroom, teaching laboratory, research laboratory, office, and other types of space that are necessary and currently available to implement the proposed program through Year 5.

Existing classroom space in the Science and Technology Building (STG), Kate Tiedemann College of Business (LPH) as well as classroom space available in Harbor Hall is expected to be sufficient for the early development of this program. New campus computer classrooms in LPH are expected to be more than adequate for the needs of this proposed program. In anticipation of a major redesign and renovation of Davis Hall, it is anticipated that additional office space and classroom space will be available to Environmental Chemistry faculty and students. The recent introduction of the Warehouse Labs and the new WHL Scientific Instrument room, which will house equipment and instruments to be used by advanced Chemistry students. This is more than sufficient to support the program in Environmental Chemistry.

D. Describe additional classroom, teaching laboratory, research laboratory, office, and other space needed to implement and/or maintain the proposed program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space in Table 2 in Appendix A. Do not include costs for new construction because that information should be provided in response to X (E) below.

It is anticipated that this program will only require one new full time Instructor to support this program in years one through five. Because of the anticipated renovations on the second floor of Davis Hall it is expected that new offices will be available for existing and new faculty by Fall 2020. As the program develops and grows in the first five years, it is possible that additional tenure-track faculty lines may be necessary. However, in the context of USF consolidation, it is also possible that tenure track faculty resources will be available for teaching from both the Tampa campus and the Sarasota-Manatee campus.

E. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university’s fixed capital outlay priority list. Table 2 in Appendix A includes only Instruction and Research (I&R) costs. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase as a result of the program, describe and estimate those expenses in narrative form below. It is expected that high enrollment programs in particular would necessitate increased costs in non-I&R activities.

In the context of USF consolidation, it is expected that the St. Petersburg campus will begin to increase capital expenditures in response to new STEM degrees such as Nursing. In that context, it is expected that increased capacity in Math and Science over the years will more than enough to accommodate the faculty and student needs in Environmental Chemistry.

As the Environmental Chemistry program grows in enrollment, along with our other STEM programs in Environmental Science & Policy and Biology, it is expected that Year 5 will require construction of an additional Chemistry lab to continue to support the growing need for teaching laboratories. The Year 5 lab construction cost is estimated to be $375,000, with an additional $375,000 estimated in Operating
Capital Outlay (OCO). Laboratory supplies in Year 1 will require $12,120 in expenses, it is anticipated that course laboratory fees will support the need for supplies in Year 5. Thirty-three thousand dollars ($33,000) for equipment to service new labs such as Physical Chemistry, Inorganic Chemistry and Environmental Chemistry are additional expenses anticipated in Year 5. A letter of support from Dr. Martin Tadlock, Regional Chancellor of USFSP is provided in Appendix F. This letter documents the University has established this program as a priority on its fixed capital outlay.

F. Describe specialized equipment that is currently available to implement the proposed program through Year 5. Focus primarily on instructional and research requirements.

The following instruments are already available within USFSP CAS and will be used in several of the courses within the program such as Analytical Chemistry, Inorganic Chemistry, Physical Chemistry, and Methods of Instrument Analysis:

- UV-Vis spectrophotometer
- ATR-FTIR spectrometer
- Gas Chromatograph
- HPLC (high performance liquid chromatograph)
- Differential Scanning Calorimeter
- Atomic Adsorption Spectrometer
- Nanodrop Fluorescence spectrometer

G. Describe additional specialized equipment that will be needed to implement and/or sustain the proposed program through Year 5. Include projected costs of additional equipment in Table 2 in Appendix A.

Because of the growth rate in all STEM programs at USFSP, it is anticipated that there will be a need for additional Chemistry teaching laboratory space. For this reason, the estimated cost of a new Chemistry lab is projected into the cost in Year 5. It should be noted, the laboratory will service all STEM programs at USFSP and not simply Environmental Chemistry. In addition to the new lab, the introduction of Physical Chemistry and Inorganic Chemistry will require additional instrumentation that is not currently available to the College of Arts & Sciences at USFSP. The list that follows is considered basic instrumentation in many accredited physical chemistry lab courses. The projected costs listed in Table 2-A are listed under Expenses ($12,120) and Operating Capital Outlay ($33,000).

- Vacuum pumps (4 needed)
- Manometers (4 needed)
- Specialized glassware for vacuum lines.
- Heating mantles (4 needed)
- Oxygen bomb calorimeter
- RTD thermometers (4 needed)
- Oscilloscope
- Raman Spectrometer
- Thermogravimetric Analysis
- Electron Spin Spectrometer and/or Nuclear Magnetic Resonance Spectrometer *
- Fluorescence spectrometer *

* If this equipment is available off site through partnerships or agreements with existing industries or medical facilities such as Johns Hopkins, or Bayfront Medical Center the university may not have to purchase this equipment.

H. Describe any additional special categories of resources needed to implement the program through Year 5 (access to proprietary research facilities, specialized services, extended travel, etc.). Include projected costs of special resources in Table 2 in Appendix A.
Additional resources include instrumentation that will be beneficial to the Environmental Chemistry program, but not essential, are available at the St. Petersburg campus, or available through the College of Marine Sciences at the St. Petersburg campus. These resources include:

- Inductively Coupled Mass Spectrometer (ICP-MS) (Located at the College of Marine Science – CMS)
- Sector Field Mass Spectrometer (CMS)
- Scanning Electron Mass Spectrometer / X-Ray Microanalysis (CMS)
- Continuous Flow Isotope Ratio Mass Spectrometer (CMS)
- Triple quadrupole Mass Spectrometer (Dr. Algeria’s research lab)

I. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5. Include the projected costs in Table 2 in Appendix A.

There are no requests for fellowships, scholarships and graduate assistantships to be allocated to the proposed program at this point in time through Year 5.

J. Describe currently available sites for internship and practicum experiences, if appropriate to the program. Describe plans to seek additional sites in Years 1 through 5.

The USF Career Center and the Internship Coordinator in the College of Arts & Sciences uses the Handshake platform for job and internship postings and employer connections. In the last year, there have been 1,425 internship postings on Handshake that have expressed an interest in hiring Environmental Chemistry-related majors. This includes the major groups of Environmental Management & Sciences, Chemistry, and Biochemistry. Some examples of companies hosting these internships are: Greenway Health, FIS, Unilever, Southwest Florida Water Management, SAS, BP, Greenkey Solar, Bristol-Myers Squibb, and Zoo Tampa.

The College of Arts & Sciences Internship Coordinator works closely with the Career Center’s Employer Relations Coordinator to identify and collaborate with new employers in areas where our graduates are seeking employment. The Career Center will continue to explore new internship sites in the first five years of the Environmental Chemistry program through use of Handshake, Burning Glass, Chamber of Commerce and the Economic Development organizations in the area.

Companies - Posting for Positions in the last 12 months in Tampa/St. Petersburg according to Burning Glass.

- Thermo Fisher Scientific Inc.
- City Tampa
- United States Ecology
- Cemex
- Verizon Communications Inc.
- State of Florida
- US Government
- City of Clearwater
## APPENDIX A
### TABLE 1-A
### PROJECTED HEADCOUNT FROM POTENTIAL SOURCES
(Baccalaureate Degree Program)

<table>
<thead>
<tr>
<th>Source of Students (Non-duplicated headcount in any given year)*</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
<td>FTE</td>
<td>HC</td>
</tr>
<tr>
<td>Upper-level students who are transferring from other majors within the university**</td>
<td>45</td>
<td>36</td>
<td>20</td>
<td>16</td>
<td>11</td>
</tr>
<tr>
<td>Students who initially entered the university as FTIC students and who are progressing from the lower to the upper level***</td>
<td>25</td>
<td>20</td>
<td>56</td>
<td>45</td>
<td>77</td>
</tr>
<tr>
<td>Florida College System transfers to the upper level***</td>
<td>16</td>
<td>12.8</td>
<td>25</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Transfers to the upper level from other Florida colleges and universities***</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Transfers from out of state colleges and universities***</td>
<td>5</td>
<td>4</td>
<td>5</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Other (double-majors)***</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>96</td>
<td>77</td>
<td>111</td>
<td>89</td>
<td>123</td>
</tr>
</tbody>
</table>

* List projected annual headcount of students enrolled in the degree program. List projected yearly cumulative ENROLLMENTS instead of admissions.

** If numbers appear in this category, they should go DOWN in later years.

*** Do not include individuals counted in any PRIOR CATEGORY in a given COLUMN.
## APPENDIX A

### TABLE 2

<table>
<thead>
<tr>
<th>Instruction &amp; Research Costs (non-cumulative)</th>
<th>Year 1</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reallocated Base* (E&amp;G)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enrollment Growth (E&amp;G)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Recurring (E&amp;G)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Non-Recurring (E&amp;G)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contracts &amp; Grants (C&amp;G)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philanthropy Endowments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enterprise Auxiliary Funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal columns 1+…+7</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty Salaries and Benefits</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>167,348</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>$167,348</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>$167,348</td>
</tr>
</tbody>
</table>

| A & P Salaries and Benefits | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |

| USPS Salaries and Benefits | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |

| Other Personal Services | 6,000 | 0 | 0 | 0 | 0 | 0 | 0 | $6,000 | 12,000 | 0 | 0 | 0 | 0 | 0 | $12,000 |

| Assistantships & Fellowships | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |

| Library | 7,000 | 0 | 0 | 0 | 0 | 0 | 0 | $7,000 | 7,000 | 0 | 0 | 0 | 0 | 0 | $7,000 |

| Expenses | 87,120 | 0 | 0 | 0 | 0 | 0 | 0 | $87,120 | 375,000 | 0 | 0 | 0 | 0 | 0 | $375,000 |

| Operating Capital Outlay | 33,000 | 0 | 0 | 0 | 0 | 0 | 0 | $33,000 | 375,000 | 0 | 0 | 0 | 0 | 0 | $375,000 |

| Special Categories | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 | 0 | 0 | 0 | 0 | 0 | 0 | $0 |

| **Total Costs** | **$300,468** | **$0** | **$0** | **$0** | **$0** | **$0** | **$0** | **$300,468** | **$936,348** | **$0** | **$0** | **$0** | **$0** | **$0** | **$936,348** |

*Identify reallocation sources in Table 3.

**Includes recurring E&G funded costs ("reallocated base," "enrollment growth," and "new recurring") from Years 1-4 that continue into Year 5.

***Identify if non-recurring.

### Calculated Cost per Student FTE

<table>
<thead>
<tr>
<th>Faculty and Staff Summary</th>
<th>Calculated Cost per Student FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Positions</td>
<td></td>
</tr>
<tr>
<td>Faculty (person-years)</td>
<td>1.28</td>
</tr>
<tr>
<td>A &amp; P (FTE)</td>
<td>0</td>
</tr>
<tr>
<td>USPS (FTE)</td>
<td>0</td>
</tr>
</tbody>
</table>

| | Year 1 | Year 5 |
| Total E&G Funding | **$300,468** | **$936,348** |
| Annual Student FTE | **$76,380** | **$112,000** |
| E&G Cost per FTE | **$3,912** | **$8,360** |
## APPENDIX A

**TABLE 3**  
ANTICIPATED REALLOCATION OF EDUCATION & GENERAL FUNDS*

<table>
<thead>
<tr>
<th>Program and/or E&amp;G account from which current funds will be reallocated during Year 1</th>
<th>Base before reallocation</th>
<th>Amount to be reallocated</th>
<th>Base after reallocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems Management Faculty Salary and Benefits</td>
<td>174,353</td>
<td>21,796</td>
<td>$152,557</td>
</tr>
<tr>
<td>Chemistry Faculty Salary and Benefits</td>
<td>531,391</td>
<td>145,552</td>
<td>$385,839</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$705,744</strong></td>
<td><strong>$167,348</strong></td>
<td><strong>$538,396</strong></td>
</tr>
</tbody>
</table>

* If not reallocating funds, please submit a zeroed Table 3
## APPENDIX A

### TABLE 4

ANTICIPATED FACULTY PARTICIPATION

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Faculty Name or “New Hire”</th>
<th>Highest Degree Held</th>
<th>Academic Discipline or Speciality</th>
<th>Rank</th>
<th>Contract Status</th>
<th>Initial Date for Participation in Program</th>
<th>Mos. Contract Year 1</th>
<th>FTE Year 1</th>
<th>% Effort for Prg. Year 1</th>
<th>PY Year 1</th>
<th>Mos. Contract Year 5</th>
<th>FTE Year 5</th>
<th>% Effort for Prg. Year 5</th>
<th>PY Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Henry Alegria, Ph.D.</td>
<td>Associate</td>
<td>Tenured</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.42</td>
<td>0.31</td>
<td>9</td>
<td>0.75</td>
<td>0.42</td>
<td>0.31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Yasin F. Elshorbany, Ph.D.</td>
<td>Assistant</td>
<td>Tenure-Track</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.09</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>John Osegovic, Ph.D.</td>
<td>Instructor</td>
<td>MYA</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.38</td>
<td>0.28</td>
<td>9</td>
<td>0.75</td>
<td>0.38</td>
<td>0.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Madhu Pandey, Ph.D.</td>
<td>Instructor</td>
<td>MYA</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.33</td>
<td>0.25</td>
<td>9</td>
<td>0.75</td>
<td>0.33</td>
<td>0.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Xue Feng “Bob” Wang, Ph.D.</td>
<td>Instructor</td>
<td>MYA</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.17</td>
<td>0.13</td>
<td>9</td>
<td>0.75</td>
<td>0.17</td>
<td>0.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Varol Kayhan, Ph.D.</td>
<td>Associate</td>
<td>Tenured</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.09</td>
<td>9</td>
<td>0.75</td>
<td>0.13</td>
<td>0.09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>New Hire, Ph.D.</td>
<td>Assistant</td>
<td>Tenure-Track</td>
<td>Fall 2019</td>
<td>9</td>
<td>0.75</td>
<td>0.17</td>
<td>0.13</td>
<td>9</td>
<td>0.75</td>
<td>0.17</td>
<td>0.13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(PY) 1.28

PY 1.28

<table>
<thead>
<tr>
<th>Faculty Code</th>
<th>Source of Funding</th>
<th>Py Workload by Budget Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Current Education &amp; General Revenue</td>
<td>Year 1: 1.16, Year 5: 1.16</td>
</tr>
<tr>
<td>B</td>
<td>Current Education &amp; General Revenue</td>
<td>Year 1: 0.13, Year 5: 0.13</td>
</tr>
<tr>
<td>C</td>
<td>New Education &amp; General Revenue</td>
<td>Year 1: 0.00, Year 5: 0.00</td>
</tr>
<tr>
<td>D</td>
<td>Contracts/Grants</td>
<td>Year 1: 0.00, Year 5: 0.00</td>
</tr>
<tr>
<td>E</td>
<td>Contracts/Grants</td>
<td>Year 1: 0.00, Year 5: 0.00</td>
</tr>
</tbody>
</table>

Overall Totals for Year 1: 1.28, Year 5: 1.28
APPENDIX B

Please include the signature of the Equal Opportunity Officer and the Library Director.

Signature of Equal Opportunity Officer

Date

Signature of Library Director

Date

This appendix was created to facilitate the collection of signatures in support of the proposal. Signatures in this section illustrate that the Equal Opportunity Officer has reviewed section II.E of the proposal and the Library Director has reviewed sections X.A and X.B.
APPENDIX C
Program Assessment
Academic Learning Compacts

<table>
<thead>
<tr>
<th>Academic Learning Compact (ALC) for B.S. in Environmental Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Degree:</strong> B.S. Environmental Chemistry</td>
</tr>
</tbody>
</table>

**Program Mission Statement:** Consistent with the mission of the College of Arts & Sciences at USFSP, the Environmental Chemistry program will strive for excellence in teaching, research and service to the community. Graduates of our program will:

1. Demonstrate strong interdisciplinary knowledge in chemistry, environmental science and business to solve critical environmental problems in government, industry, private consultation, health care and education.
2. Use their interdisciplinary knowledge of physical science in chemistry, environmental science and business to foster communications across disciplinary boundaries.
3. Make a contribution to society through innovation in the field by advancing new ideas and knowledge in the combined disciplines of chemistry, environmental science and business.

**Graduates of the B.S. in Environmental Chemistry program will demonstrate the following:**

**A. Discipline Specific Knowledge and Skills:**

**Learning Outcome 1:** Demonstrate knowledge (understanding and retention) of the main sub-disciplines of Chemistry: Organic, Analytical, Inorganic, Physical and Environmental Chemistry.

**Method of Assessment:** Completion of the Diagnostic of Undergraduate Chemistry Knowledge (DUCK) examination in the Senior Year developed by the American Chemical Society (SCS).

**Criterion for Success:** Graduates of the Environmental Chemistry degree program will meet or exceed the national average on this examination.

**Learning Outcome 2:** Laboratory skills: Students will demonstrate mastery of Chemistry and Environmental Chemistry skills by performing valid, accurate, efficient and safe laboratory procedures and techniques in quantitative, analytical and physical measurements; synthesis of molecules; instrumental analysis and structure determination.

**Method of Assessment:** Earn a grade of C (not C-) or better in the following: Organic Chemistry II Lab, Elementary Analytical Chemistry Lab, Physical Chemistry I Lab and Intermediate Inorganic Chemistry Lab.

**Criterion for Success:** Seventy percent of graduates of Environmental Chemistry degree program will earn a C (not C-) or better designated Laboratory Instruction.

**B. Critical Thinking Skills:**

**Outcome 1:** Students will demonstrate critical thinking skills by producing reports across the range of chemical disciplines. Reports will contain a literature review, formulate and test scientific hypotheses, and conduct a quantitative and qualitative analysis. They will develop conclusions based on chemical concepts.

**Method of Assessment:** Students will research a specific problem in Environmental Chemistry, conduct a literature review, formulate a scientific hypothesis, conduct a quantitative analysis and qualitative analysis of the data and develop conclusions based on the data.

**Criterion for Success:** Seventy percent of the graduates of Environmental Chemistry will successfully (C or better) integrate these scientific principles into either an undergraduate internship paper or undergraduate research paper.

**C. Communication Skills:**

**Outcome 1:** Students will provide a poster and oral presentation of their undergraduate research or internship papers.

**Means of Assessment:** Students will present their work to an interdisciplinary audience of Chemistry, Environmental Science, and Business faculty and students.

**Criterion for Success:** Seventy percent of the graduates of the program will successfully (C or better) communicate their findings to an interdisciplinary audience, based on a grading rubric.

**D. Civic Engagement:**

**Outcome 1:** Students will apply methods of Chemistry to address the human impact on air, water or soil through community internships or undergraduate research.

**Means of Assessment:** Students will complete a paper representing a literature review and formulate an informed scientific solution a problem presented in the Internship or undergraduate research. This will be evaluated by Faculty supervisors and/or Internship supervisors in the community.

**Criterion for Success:** Seventy percent of the graduates of the program will formulate a novel solution to an environmental problem based on a grade of C or better (not C-) by faculty and/or community supervisors.
B.S. in Environmental Chemistry (CIP 40.0509)

Total Degree Hours: 120

The Environmental Chemistry degree program at University of South Florida St. Petersburg will prepare students to understand the impact of human activity on air, water, soil and human health. Students will gain a strong interdisciplinary knowledge of Chemistry, Environmental Science and Business to solve critical environmental problems in government, industry, health care and education. Students will learn to use this interdisciplinary knowledge to improve communication and understanding across disciplinary boundaries. They will make a contribution to society by advancing new ideas and innovation in the fields of Chemistry, Environmental Science and Business.

Students must complete 120 course hours, including all State Mandated Pre-Requisites, core courses and major electives. Students’ requirement of 120 hours also includes all university and college degree requirements which include:

- Minimum of 120 earned semester hours with overall 2.00 GPA, including all courses attempted within the USF system.
- A transfer student must have a minimum USF GPA of 2.0 or higher and an overall GPA of 2.0 or higher.
- Students must complete a minimum of 30 credit hours at USFSP.
- Complete a minimum of 20 credit hours in their major at USFSP.
- Satisfactorily complete state mandated composition and computation and civics literacy state requirements.
- Earn a minimum of 42 semester hours in upper-level work (courses numbered 3000 and above).
- Complete all General Education Requirements.
- Complete all program requirements, and
- Be recommended for graduation by the Dean of the College of Arts and Sciences.

University General Education Requirements (36 hours): See recommended General Education Curriculum in Environmental Chemistry.

- Six (6) hours credit in Communications
- Six (6) hours credit in Computation
- Six (6) hours credit in Natural Sciences
- Six (6) hours credit in Social Sciences
- Six (6) hours credit in Humanities
- Six (6) additional hours of approved General Education electives

College of Arts and Sciences Exit Requirements (9 hours): See recommended Exit Requirements in Environmental Chemistry.

- Six (6) hours credit in Major Works & Major Issues (GEO 4372 Recommended)
- Three (3) hours credit in Literature & Writing

Students must complete all degree requirements with a grade of C (not C-) or better.

Required Core Courses: (44 Hours)

- CHM 2045 / 2045L General Chemistry I and Laboratory (3 + 1 Hours)
- CHM 2046 / 2046L General Chemistry II and laboratory (3 + 1 Hours)
- CHM 2210 / 2210L Organic Chemistry I and Laboratory (3 + 2 Hours)
- CHM 2211 / 2211L Organic Chemistry II and Laboratory (3 + 2 Hours)
- CHM 3120C Elementary Analytical Chemistry and Laboratory (4 Hours)
- CHM 4410 / 4410L Physical Chemistry I and Laboratory (4 + 1 Hours)
- CHM 4411 Physical Chemistry II (4 Hours)
- CHM 3610 / 3610L Intermediate Inorganic Chemistry (3 + 1 Hours)
- CHM 4080 Environmental Chemistry I (3 Hours)
CHM 4081 Environmental Chemistry II (3 Hours)
ISM 4546 Machine Learning (Predictive Analytics) (3 Hours)

Additional State Mandated Pre-Requisites (16 Hours)

MAC 2311 Calculus I (4 Hours) (included in General Education)
MAC 2312 Calculus II (4 Hours)
PHY 2048 / PHY 2048L Physics I and Laboratory (3 + 1 Hours) (included in General Education)
PHY 2049 / PHY 2049L Physics II and Laboratory (3 + 1 Hours)

Major Electives in Environmental Chemistry (12 Hours)

MAN 3023 Principles of Management (3 Hours)
ECO 2013 Macroeconomics (3 Hours)
COP 2030 Programming (3 Hours)
EVR 2001 & EVR 2001L Introduction to Environmental Science & Lab (3 + 1)
EVR 2861 Introduction to Environmental Policy (3 Hours)
EVR 4114 Climate Change (3 Hours)
EVR 4051 Environmental Field Methods (3 Hours)
POS 3697 Environmental Law (3 Hours)
CHM 4970 Undergraduate Research (3 Hours)
CHM 4940 Applied Chemistry Internship (1 to 3 Hours) New to SCNS
CHM 4130C Methods of Instrument Analysis (4 Hours)
CHM 4060 Use of Chemical Literature (1 Hour)
College of Arts & Sciences USFSP:  
Intended Program of Study – B.S. Environmental Chemistry  
CIP: 40.0509

Florida College Associate of Arts Degree:

**FIRST-YEAR FRESHMAN**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>English Composition I</td>
<td>Gen. Ed. State Communication</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>Gen. Ed State Math</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Humanities</td>
<td>Gen. Ed. Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Macroeconomics</td>
<td>Gen. Ed. Social Science</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>General Elective</td>
<td>General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

 total: 15

**FRESHMAN SPRING**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>English Composition II</td>
<td>Gen. Ed. State Communication</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1147</td>
<td>Pre-Calculus</td>
<td>Gen. Ed State Math</td>
<td>4</td>
</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
<td>Gen. Ed. Science/Core</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Lab</td>
<td>Gen. Ed. Science/Core</td>
<td>1</td>
</tr>
<tr>
<td>POS 2041 or AMH 2020</td>
<td>Civic Literacy Requirement</td>
<td>Gen. Ed. Social Science</td>
<td>3</td>
</tr>
</tbody>
</table>

 total: 14

**SECOND-YEAR SOPHOMORE**

**SOPHOMORE FALL**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
<td>Gen. Ed. Science/Core</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>General Chemistry II Lab</td>
<td>Gen. Ed. Science/Core</td>
<td>1</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Humanities</td>
<td>Gen. Ed. Humanities</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td>Gen. Ed State Math</td>
<td>4</td>
</tr>
<tr>
<td>BSC 2010</td>
<td>Biology I</td>
<td>Recommended General Elective</td>
<td>3</td>
</tr>
<tr>
<td>BSC 2010L</td>
<td>Biology I Lab</td>
<td>Recommended General Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

 total: 15

**SOPHOMORE SPRING**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2011</td>
<td>Biology II</td>
<td>Recommended General Elective</td>
<td>3</td>
</tr>
<tr>
<td>BSC 2011L</td>
<td>Biology II Lab</td>
<td>Recommended General Elective</td>
<td>1</td>
</tr>
<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
<td>State Pre-requisite</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>General Physics I Lab</td>
<td>State Pre-requisite</td>
<td>1</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
<td>State Pre-requisite</td>
<td>5</td>
</tr>
</tbody>
</table>

 total: 16

**FLORIDA COLLEGE SYSTEM TOTAL HOURS: 60**
# University of South Florida: Intended Program of Study – B.S. Environmental Chemistry

**CIP: 40.0509**

## THIRD-YEAR JUNIOR

### JUNIOR FALL

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2010</td>
<td>Organic Chemistry I</td>
<td>Core/State Pre-requisite</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2010L</td>
<td>Organic Chemistry II Lab</td>
<td>Core/State Pre-requisite</td>
<td>2</td>
</tr>
<tr>
<td>ISM 4546</td>
<td>Machine Learning/Data Analytics</td>
<td>Core</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Environmental Chemistry Elective</td>
<td>Major Elective</td>
<td>2</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Environmental Chemistry Elective</td>
<td>Major Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

### JUNIOR SPRING

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2011</td>
<td>Organic Chemistry II</td>
<td>Core/State Pre-requisite</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2011L</td>
<td>Organic Chemistry II Lab</td>
<td>Core/State Pre-requisite</td>
<td>2</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Environmental Chemistry Elective</td>
<td>Major Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
<td>State Pre-requisite</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>General Physics II Lab</td>
<td>State Pre-requisite</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

## FOURTH-YEAR SENIOR

### SENIOR FALL

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 3120C</td>
<td>Elementary Analytical Chemistry &amp; Lab</td>
<td>Core</td>
<td>4</td>
</tr>
<tr>
<td>CHM 4410</td>
<td>Physical Chemistry I</td>
<td>Core</td>
<td>4</td>
</tr>
<tr>
<td>CHM 4410L</td>
<td>Physical Chemistry I Lab</td>
<td>Core</td>
<td>1</td>
</tr>
<tr>
<td>CHM 4080</td>
<td>Environmental Chemistry I</td>
<td>Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### SENIOR SPRING

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 4411</td>
<td>Physical Chemistry II</td>
<td>Core</td>
<td>4</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Environmental Chemistry Elective</td>
<td>Major Elective</td>
<td>3</td>
</tr>
<tr>
<td>CHM 3610</td>
<td>Intermediate Inorganic Chemistry</td>
<td>Core</td>
<td>3</td>
</tr>
<tr>
<td>CHM 3610L</td>
<td>Intermediate Inorganic Lab</td>
<td>Core</td>
<td>1</td>
</tr>
<tr>
<td>CHM 4081</td>
<td>Environmental Chemistry II</td>
<td>Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

### UNIVERSITY OF SOUTH FLORIDA SUMMER SEMESTERS

#### SUMMER SESSION I

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXX XXXX</td>
<td>Recommended Exit</td>
<td>Major Works &amp; Major Issues</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Exit</td>
<td>Literature &amp; Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

#### SUMMER SESSION II

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Curriculum</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXX XXXX</td>
<td>Recommended Exit</td>
<td>Major Works &amp; Major Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

*University of South Florida System Total Hours: 60*
APPENDIX E: Educational Advisory Board Report
DATA SNAPSHOT

Market Demand for a Bachelor’s-Level Environmental Chemistry Program

Prepared for the University of South Florida-St. Petersburg
LEGAL CAVEAT

EAB Global, Inc. ("EAB") has made efforts to verify the accuracy of the information it provides to members. This report relies on data obtained from many sources, however, and EAB cannot guarantee the accuracy of the information provided or any analysis based thereon. In addition, neither EAB nor any of its affiliates (each, an "EAB Organization") is in the business of giving legal, accounting, or other professional advice, and its reports should not be construed as professional advice. In particular, members should not rely on any legal commentary in this report as a basis for action, or assume that any tactics described herein would be permitted by applicable law or appropriate for a given member’s situation. Members are advised to consult with appropriate professionals concerning legal, tax, or accounting issues, before implementing any of these tactics. No EAB Organization or any of its respective officers, directors, employees, or agents shall be liable for any claims, liabilities, or expenses relating to (a) any errors or omissions in this report, whether caused by any EAB organization, or any of their respective employees or agents, or sources or other third parties, (b) any recommendation by any EAB Organization, or (c) failure of member and its employees and agents to abide by the terms set forth herein.

EAB is a registered trademark of EAB Global, Inc. in the United States and other countries. Members are not permitted to use these trademarks, or any other trademark, product name, service name, trade name, and logo of any EAB Organization without prior written consent of EAB. Other trademarks, product names, service names, trade names, and logos used within these pages are the property of their respective holders. Use of other company trademarks, product names, service names, trade names, and logos of the same does not necessarily constitute (a) an endorsement by such company of an EAB Organization and its products and services, or (b) an endorsement of the company or its products or services by an EAB Organization. No EAB Organization is affiliated with any such company.

IMPORTANT: Please read the following.

EAB has prepared this report for the exclusive use of its members. Each member acknowledges and agrees that this report and the information contained herein (collectively, the "Report") are confidential and proprietary to EAB. By accepting delivery of this Report, each member agrees to abide by the terms as stated herein, including the following:

1. All right, title, and interest in and to this Report is owned by an EAB Organization. Except as stated herein, no right, license, permission, or interest of any kind in this Report is intended to be given, transferred to, or acquired by a member. Each member is authorized to use this Report only to the extent expressly authorized herein.

2. Each member shall not sell, license, republish, distribute, or post online or otherwise this Report, in part or in whole. Each member shall not disseminate or permit the use of, and shall take reasonable precautions to prevent such dissemination or use of, this Report by (a) any of its employees and agents (except as stated below), or (b) any third party.

3. Each member may make this Report available solely to those of its employees and agents who (a) are registered for the workshop or membership program of which this Report is a part, (b) require access to this Report in order to learn from the information described herein, and (c) agree not to disclose this Report to other employees or agents or any third party. Each member shall, and shall ensure that its employees and agents use, this Report for its internal use only. Each member may make a limited number of copies, solely as adequate for use by its employees and agents in accordance with the terms herein.

4. Each member shall not remove from this Report any confidential markings, copyright notices, and/or other similar indicia herein.

5. Each member is responsible for any breach of its obligations as stated herein by any of its employees or agents.

6. If a member is unwilling to abide by any of the foregoing obligations, then such member shall promptly return this Report and all copies thereof to EAB.
Table of Contents

1) Research Methodology ......................................................................................................................... 49
   Project Challenge ................................................................................................................................. 49
   Methodology and Definitions .............................................................................................................. 49
   Emisi’s Analyst and Alumni Insight .................................................................................................... 49
   Project Sources ................................................................................................................................. 50

2) Executive Overview ............................................................................................................................. 51

3) Employer Demand ............................................................................................................................... 51
   Demand over Time ............................................................................................................................... 51
   Top Skills ........................................................................................................................................... 53
   Top Titles ........................................................................................................................................... 54
   Top Employers .................................................................................................................................. 54
   Salary ............................................................................................................................................... 56

Appendix: Reported Bachelor’s-Level Environmental Chemistry Degree Completions .................. 57
1) Research Methodology

**Project Challenge**

Leadership at the University of South Florida-St. Petersburg approached the Forum as they considered launching a bachelor’s-level degree in environmental chemistry. Through quantitative data analytics, the Forum sought to assess the market viability of a bachelor’s-level environmental chemistry program.

EAB’s market research function provides insights which guide strategic programmatic decisions at member institutions. The Forum combines qualitative and quantitative data to help administrators identify opportunities for new program development, assess job market trends, and align curriculum with employer and student demand.

EAB reports rely primarily on labor market data from the Emsi Analyst™ tool (description below). Reports occasionally use data from the United States Census Bureau and United States Bureau of Labor Statistics data to explore occupation and job trends. Market research reports may also incorporate Integrated Postsecondary Education Data System (IPEDS) data to assess student enrollment, demographics, and completion rates across competitor programs.

**Methodology and Definitions**

**Methodology:** Unless stated otherwise, this report includes data from online job postings from October 1, 2017 to September 30, 2018. The Forum identified the top skills, titles, employers, salary, and demand over time for the profiled region.

To best estimate demand for bachelor’s-level environmental chemistry professionals, the Forum analyzed job postings for bachelor’s-level professionals with skills conferred by the proposed environmental chemistry program at the University of South Florida-St. Petersburg (e.g., 'environmental chemistry,' 'analytical chemistry').

To provide salary information, the Forum identified five of the top 10 occupations available to bachelor’s-level environmental chemistry professionals that most closely align with the expected professional outcomes of a bachelor’s-level environmental chemistry program. The Forum consulted Emsi Analyst™ to determine the median statewide and national hourly wage for each occupation and the Bureau of Labor Statistics (BLS) to identify the median nationwide annual salaries.

**Definitions:** “State” and “statewide” refer to Florida.

“Local” and “local data” refer to the Tampa-St. Petersburg-Clearwater, FL metropolitan statistical area (MSA).

Annual growth in job postings is measured in the change in demand between September 2016 and September 2018.

**Emsi’s Analyst and Alumni Insight**

**EAB’s Partner for Comprehensive Labor Market Data**

This report includes data made available through EAB’s partnership with Emsi (Economic Modeling Specialists International), a labor market analytics firm serving higher education, economic development, and industry leaders in the U.S., Canada and the United Kingdom.
Emsi curates and maintains the most comprehensive labor market data sets available for academic program planning, providing real-time job posting data, workforce and alumni outcomes data, and traditional government sources of data. Under this partnership, EAB may use Emsi’s proprietary Analyst™ and Alumni Insight™ tools to answer member questions about employer demand, the competitive landscape, in-demand skills, postings versus actual hires, and skills gaps between job postings and professionals in the workforce. The Emsi tools also provide EAB with in-depth access to unsuppressed, zip-code-level government data for occupations, industries, programs, and demographics. For more complete descriptions of the Emsi tools, visit:

- http://www.economicmodeling.com/analyst/
- https://www.economicmodeling.com/alumni-insight/

To learn more about Emsi and its software and services, please contact Bob Hieronymus, Vice President of Business Development at bob.hieronymus@economicmodeling.com or (208) 883-3500.

**Project Sources**

The Forum consulted the following sources for this report:

- EAB’s internal and online libraries (eab.com).
- National Center for Education Statistics (NCES) (nces.ed.gov).
2) Executive Overview

Develop a bachelor’s-level environmental chemistry program at the University of South Florida to align with statewide and regional employer demand and projected employment growth. In September 2018, statewide employers sought bachelor's-level environmental chemistry professionals in 70 percent more job postings than in September 2016 (i.e., demand grew from 498 to 847 job postings). Further, statewide employer demand for bachelor’s-level environmental chemistry professionals increased an average of six job postings per month in the same period. Emsi Analyst™ projects an 18 percent growth in statewide employment of “environmental science and protection technicians,” an occupation available to environmental chemistry professionals, from 2016 to 2026.¹ This exceeds the predicated average growth in statewide employment of 13 percent across all occupations during this time.

Advertise salary potential for bachelor’s-level environmental chemistry professionals to recruit outcomes-focused students to the environmental chemistry program. The Bureau of Labor Statistics (BLS) reports a nationwide average annual salary across all occupations of $50,600 in 2017.² Five of the top ten occupations for bachelor’s-level environmental chemistry professionals statewide range in reported annual median salary from $45,000 to $85,000. Ensure marketing materials highlight the high potential earnings for bachelor’s-level environmental chemistry professionals across various available professions. An emphasis in marketing materials on salary outcomes can attract millennials, who desire immediate return on investment in educational programs (e.g., salary increases).³

Form partnerships with employers to facilitate experiential learning opportunities and students’ postgraduate employment. Administrators should work to communicate the University of South Florida’s distinct value to secure and grow impactful employer partnerships.⁴ Require students to complete internships to help them network and market themselves to employers. Top statewide and regional employers that seek environmental chemistry professionals include employers in government, technology, and health-related fields. Further, advertise partnerships with top local employers in marketing materials to emphasize the opportunity for students to gain professional experience and to attract career-minded students.

3) Employer Demand

Demand over Time

Statewide and Local Employer Demand Increased from September 2016 to September 2018

---

Bureau of Labor Statistics
Bureau of Labor Statistics
EAB, 2015, Designing Programs for the Millennial Workforce
EAB, 2017, Critical Disciplines to Grow Employer Partnerships
From September 2016 to September 2018, statewide demand for bachelor’s-level environmental chemistry professionals increased 70 percent (i.e., from 498 to 847 job postings) and local demand increased 48 percent (i.e., from to 138 job postings). In the last months, statewide employer demand increased 30 percent from 654 to 847 job postings) local employer demand increased percent (i.e., from 118 to 138 postings). Between September 2016 and September 2018, statewide employer demand for bachelor’s-level environmental chemistry professionals increased an average of six job postings per month. However, local demand for bachelor’s-level environmental chemistry professionals increased an average of just half a job posting per month.

High projected growth in employment of “environmental science and protection technicians,” an occupation available to bachelor’s-level environmental chemistry professionals, also indicates the proposed program aligns well with employer needs. Emsi Analyst™ projects statewide employment of “environmental science and protection technicians” to grow 18 percent from 2016 to 2026, faster than the 13 percent growth projected for all occupations statewide. The Bureau of Labor Statistics (BLS) projects growth in national employment for “environmental science and protection technicians” and attributes this projected growth to heightened public interest in the environment and increased demand placed on the environment by population growth.

Employer Demand over Time for Bachelor’s-Level Environmental Chemistry Professionals

<table>
<thead>
<tr>
<th>Month</th>
<th>Statewide Job Postings</th>
<th>Local Job Postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept 16</td>
<td>498</td>
<td>93</td>
</tr>
<tr>
<td>Oct 16</td>
<td>498</td>
<td>93</td>
</tr>
<tr>
<td>Nov 16</td>
<td>498</td>
<td>93</td>
</tr>
<tr>
<td>Dec 16</td>
<td>498</td>
<td>93</td>
</tr>
<tr>
<td>Jan 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Feb 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Mar 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Apr 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>May 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Jun 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Jul 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Aug 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Sep 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Oct 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Nov 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Dec 17</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Jan 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Feb 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Mar 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Apr 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>May 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Jun 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Jul 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Aug 18</td>
<td>529</td>
<td>101</td>
</tr>
<tr>
<td>Sep 18</td>
<td>529</td>
<td>101</td>
</tr>
</tbody>
</table>

Linear trend lines represent the average monthly change in statewide and local employer demand for bachelor’s-level environmental chemistry professionals.
Include Courses in Closely Related Scientific Disciplines in the Bachelor’s-Level Environmental Chemistry Program to Align with Employer Demand

The American Chemical Society states environmental chemists often use knowledge from other disciplines (e.g., biology, geology, ecology) due to the interdisciplinary nature of the field. This suggests courses which confer scientific skills across a range of disciplines will equip environmental chemistry students with skills necessary to succeed in their careers. Scientific skills (e.g., ‘chemistry’) account for 15 of the top 20 skills statewide and local employers seek for bachelor’s-level environmental chemistry professionals. As expected, ‘chemistry’ accounts for the top skill local and statewide employers seek for bachelor’s-level environmental chemistry professionals in the last 12 months. Administrators should note only one environmental skill (i.e., ‘environmental science’) ranks among the top 20 skills statewide and local employers request for bachelor’s-level environmental chemistry professionals.

Further, ensure a bachelor’s-level environmental chemistry program confers in-demand management skills. Management skills (e.g., ‘quality management’) account for two of the top 20 skills statewide and local employers seek for bachelor’s-level environmental chemistry professionals. The inclusion of management courses in the curriculum of the proposed bachelor’s-level environmental chemistry program will position students to meet statewide and local demand. When marketing the environmental chemistry program to prospective students, administrators should highlight how the skills conferred in the program align with demonstrated employer demand.

Top Skills for Bachelor’s-Level Environmental Chemistry Professionals

October 2017-September 2018, Statewide and Local Data

N (statewide) = 3,251 job postings; n (local) = 538 job postings

Top Skills

- Chemistry
- Biology
- Microbiology
- Hematology
- Health Technology
- Medical Laboratory
- Product Quality Assurance
- Serology
- Quality Management
- Geology
- Pharmaceuticals
- Calculus
- Environmental Science
- Immunology
- Immunohaematology
- Mechanics
- Thermodynamics
- Biochemistry
- Hydrology
- Corrective And Preventive Actions
- Environmental Science
- Auditing
- Environmental Science Clinical Trials
- Pathology
- Corrective And Preventive Actions
- Biotechnology
- Immunohaematology
- Serology
Advertise the Wide Range of Careers Available to Graduates of the Bachelor’s-Level Environmental Chemistry Program to Attract Prospective Students

Reference in-demand roles for environmental chemistry professionals in program marketing to secure enrollments. Science-related roles (e.g., ‘laboratory technicians,’ ‘chemists’) represent 14 of the top 20 titles statewide employers post for environmental chemistry professionals in the last 12 months. ‘Medical technologists’ represents the most commonly posted job title statewide and locally (i.e., 468 and 107 job postings, respectively). Highlight the diversity of possible positions in marketing messages to attract enrollments from career-minded students. The inclusion of career-related data (e.g., job placement rates, salary information) in marketing materials can lead to growth in applications and enrollments. As the prospective environmental chemistry program prepares graduates for both environmental chemistry and more general chemistry roles, the inclusion of labor market data will help demonstrate the variety of career opportunities available to graduates.

Additionally, engineering positions (e.g., ‘quality assurance engineer’) represent two of the top 20 job titles statewide and four of the top 20 titles locally for bachelor’s-level environmental chemistry professionals. Job postings for ‘quality assurance engineers’ represent two percent of relevant statewide demand (i.e., 72 of 3,251 job postings) and three percent of relevant local demand (i.e., 18 of 538 job postings) for bachelor’s-level environmental chemistry professionals. Administrators should note employers do not necessarily require an engineering degree to fill these positions. Employers seek professionals with relevant chemistry skills and list degrees in a variety of related fields (e.g., chemistry, biology, engineering) as acceptable qualifications.

Top Titles for Bachelor’s-Level Environmental Chemistry Professionals

October 2017-September 2018, State and Local Data

<table>
<thead>
<tr>
<th>Statewide</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Technicians</td>
<td>128</td>
</tr>
<tr>
<td>Environmental Specialists</td>
<td>88</td>
</tr>
<tr>
<td>Quality Assurance Engineers</td>
<td>74</td>
</tr>
<tr>
<td>Laboratory Technologists</td>
<td>74</td>
</tr>
<tr>
<td>Laboratory Managers</td>
<td>47</td>
</tr>
<tr>
<td>Science Teachers</td>
<td>43</td>
</tr>
<tr>
<td>Design Engineers</td>
<td>38</td>
</tr>
<tr>
<td>Sales Representatives</td>
<td>34</td>
</tr>
<tr>
<td>Research Assistants</td>
<td>30</td>
</tr>
<tr>
<td>Project Managers</td>
<td>29</td>
</tr>
<tr>
<td>Top Employers:</td>
<td>29</td>
</tr>
<tr>
<td>Method Development Scientists</td>
<td>26</td>
</tr>
<tr>
<td>Science-related Engineering</td>
<td>24</td>
</tr>
<tr>
<td>Project Managers</td>
<td>23</td>
</tr>
<tr>
<td>Research Assistants</td>
<td>22</td>
</tr>
<tr>
<td>Sales Representatives</td>
<td>21</td>
</tr>
<tr>
<td>Top Employers:</td>
<td>20</td>
</tr>
<tr>
<td>Laboratory Technicians</td>
<td>18</td>
</tr>
<tr>
<td>Environmental, Health</td>
<td>17</td>
</tr>
<tr>
<td>Environmental, Health, and Safety Managers</td>
<td>17</td>
</tr>
<tr>
<td>Research Assistants</td>
<td>16</td>
</tr>
<tr>
<td>Sales Representatives</td>
<td>15</td>
</tr>
<tr>
<td>Top Employers:</td>
<td>14</td>
</tr>
</tbody>
</table>

Partner with Top Employers that Seek Bachelor’s-Level Environmental Chemistry Professionals to Enhance Career Opportunities for Enrolled Students Across Fields

Partner with top employers across fields to offer experiential learning opportunities (e.g., internships) which help students gain real world experience, acquire networking contacts, and build their resumes. Use these partnerships to develop recruitment pathways into
postgraduate positions for students. Top fields for bachelor's-level environmental chemistry professionals include technology (e.g., Oracle Corporation), government (e.g., United States Department of the Navy), and health care (e.g., Adventist Health System). Oracle Corporation demonstrates the greatest demand for bachelor's-level environmental chemistry professionals statewide with 143 postings. Other employers with high demand for bachelor's-level environmental chemistry professionals in the last 12 months include companies in the defense and energy industries. Prioritize partnerships with employers such as Adventist Health that demonstrate high demand in the local area, as they may offer unique opportunities for long term relationships due to their close proximity. Adventist Health demonstrates the second highest level of demand for bachelor's-level environmental chemistry professionals locally (i.e., 27 postings).

For more information on establishing and growing impactful employer partnerships, please see EAB's Critical Disciplines to Grow Employer Partnerships research.15

Top Statewide Employers for Bachelor’s-Level Environmental Chemistry Professionals

October 2017-September 2018, State Data16

n=3,251 job postings

<table>
<thead>
<tr>
<th>Employer</th>
<th>Number of Job Postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Corporation</td>
<td>76</td>
</tr>
<tr>
<td>The Boeing Company</td>
<td>73</td>
</tr>
<tr>
<td>United States Department of the Navy</td>
<td>60</td>
</tr>
<tr>
<td>Adventist Health System</td>
<td>56</td>
</tr>
<tr>
<td>Florida Department of Revenue</td>
<td>50</td>
</tr>
<tr>
<td>United States Department of the Army</td>
<td>48</td>
</tr>
<tr>
<td>Aerotek, Inc.</td>
<td>46</td>
</tr>
<tr>
<td>Catalent, Inc.</td>
<td>45</td>
</tr>
<tr>
<td>Sunbelt Staffing, LLC</td>
<td>44</td>
</tr>
<tr>
<td>State of Florida</td>
<td>43</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>41</td>
</tr>
<tr>
<td>HCA Holdings, Inc.</td>
<td>39</td>
</tr>
<tr>
<td>Lockheed Martin Corporation</td>
<td>39</td>
</tr>
<tr>
<td>Nextera Energy, Inc.</td>
<td>38</td>
</tr>
<tr>
<td>Quest Diagnostics Incorporated</td>
<td>35</td>
</tr>
<tr>
<td>Kelly Services, Inc.</td>
<td>33</td>
</tr>
<tr>
<td>University of Florida</td>
<td>32</td>
</tr>
<tr>
<td>United States Department of the Air...</td>
<td>31</td>
</tr>
<tr>
<td>Department of Veterans Affairs</td>
<td>30</td>
</tr>
<tr>
<td>General Electric Company</td>
<td>29</td>
</tr>
<tr>
<td>State of Florida</td>
<td>28</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>27</td>
</tr>
<tr>
<td>Florida Department of Revenue</td>
<td>25</td>
</tr>
<tr>
<td>United States Department of the Navy</td>
<td>24</td>
</tr>
<tr>
<td>Florida Department of Revenue</td>
<td>23</td>
</tr>
<tr>
<td>United States Department of the Air...</td>
<td>22</td>
</tr>
<tr>
<td>Department of Veterans Affairs</td>
<td>21</td>
</tr>
<tr>
<td>General Electric Company</td>
<td>20</td>
</tr>
<tr>
<td>The Staffing Resource Group, Inc.</td>
<td>19</td>
</tr>
<tr>
<td>Adventist Health System</td>
<td>18</td>
</tr>
<tr>
<td>Valeant Pharmaceuticals International, Inc</td>
<td>18</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>17</td>
</tr>
<tr>
<td>The Tampa General Hospital Foundation Inc</td>
<td>15</td>
</tr>
<tr>
<td>Oracle Corporation</td>
<td>15</td>
</tr>
<tr>
<td>Sunbelt Staffing, LLC</td>
<td>14</td>
</tr>
<tr>
<td>General Electric Company</td>
<td>13</td>
</tr>
<tr>
<td>The Staffing Resource Group, Inc.</td>
<td>11</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>10</td>
</tr>
<tr>
<td>Adventist Health System</td>
<td>9</td>
</tr>
<tr>
<td>Valeant Pharmaceuticals International, Inc</td>
<td>9</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>8</td>
</tr>
<tr>
<td>The Tampa General Hospital Foundation Inc</td>
<td>8</td>
</tr>
<tr>
<td>Oracle Corporation</td>
<td>7</td>
</tr>
<tr>
<td>Sunbelt Staffing, LLC</td>
<td>6</td>
</tr>
<tr>
<td>General Electric Company</td>
<td>5</td>
</tr>
<tr>
<td>The Staffing Resource Group, Inc.</td>
<td>5</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>4</td>
</tr>
<tr>
<td>The Tampa General Hospital Foundation Inc</td>
<td>3</td>
</tr>
<tr>
<td>Oracle Corporation</td>
<td>2</td>
</tr>
<tr>
<td>Sunbelt Staffing, LLC</td>
<td>2</td>
</tr>
<tr>
<td>General Electric Company</td>
<td>1</td>
</tr>
</tbody>
</table>

Top Local Employers for Bachelor’s-Level Environmental Chemistry Professionals

October 2017-September 2018, Local Data17

n=538 job postings

<table>
<thead>
<tr>
<th>Employer</th>
<th>Number of Job Postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalent, Inc.</td>
<td>47</td>
</tr>
<tr>
<td>Adventist Health System</td>
<td>27</td>
</tr>
<tr>
<td>Valeant Pharmaceuticals International, Inc</td>
<td>20</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>19</td>
</tr>
<tr>
<td>The Tampa General Hospital Foundation Inc</td>
<td>16</td>
</tr>
<tr>
<td>Oracle Corporation</td>
<td>15</td>
</tr>
<tr>
<td>ACCENTURE, INC.</td>
<td>14</td>
</tr>
<tr>
<td>EAB, Critical Disciplines to Grow Employer Partnerships 2017</td>
<td>13</td>
</tr>
<tr>
<td>The Staffing Resource Group, Inc.</td>
<td>13</td>
</tr>
<tr>
<td>Kelly Services, Inc.</td>
<td>12</td>
</tr>
<tr>
<td>Quest Diagnostics Incorporated</td>
<td>12</td>
</tr>
<tr>
<td>Department of Veterans Affairs</td>
<td>11</td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>9</td>
</tr>
<tr>
<td>Sunbelt Staffing, LLC</td>
<td>9</td>
</tr>
<tr>
<td>Emsi Analyst ™</td>
<td>9</td>
</tr>
<tr>
<td>Emsi Analyst ™</td>
<td>9</td>
</tr>
</tbody>
</table>

Administrators should note The Staffing Resource Group, Inc.; Kelly Services, Inc.; Sunbelt Staffing, LLC; Human Edge Inc.; and Kelly Services, Inc. post job openings for multiple employers.
Salary

Include Salary Information in Marketing Materials to Convey Return on Investment to Prospective Students

Include information on the salary ranges of common occupations available to bachelor’s-level environmental chemistry professionals to attract outcomes focused students to the prospective program. ‘Clinical laboratory technologists and technicians,’ ‘chemists,’ ‘industrial engineers,’ ‘environmental scientists and specialists,’ and ‘environmental science and protection technicians’ account for five of the top 10 occupations available to bachelor’s-level environmental chemistry professionals in Florida. The reported national median hourly earnings for these occupations exceed the reported statewide median hourly earnings. For example, Emsi Analyst™ reports $28.63 as the median statewide hourly earnings and $30.18 as the median national hourly earnings for ‘clinical laboratory technologists and technicians.’ The national annual median earnings for these occupations range from $45,000 to $85,000. The BLS notes the median wages for “environmental scientists and specialists” varies by field. For example, those who work in local government, excluding education and hospitals, earn a median annual wage of $69,440, whereas those who work in federal government, excluding postal service, earn a median annual wage of $101,400.18

Further, the Hamilton Project reports those with a bachelor’s-level degree in chemistry who work as “chemist and material scientists” earn an average $73,791 annually.19 As expected, professionals with a bachelor’s degree in chemistry who work as “other managers” (unspecified management type) often receive higher salaries, with reported annual median wages of $106,531.20

Earnings for Bachelor’s-Level Environmental Chemistry Professionals

October 2017-September 2018, National and Statewide Data21
n=3,251 job postings

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Sample Job Titles</th>
<th>Statewide Median Hourly Earnings*</th>
<th>National Median Hourly Earnings*</th>
<th>National Median Annual Earnings22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Laboratory Technologists</td>
<td>Chief Medical Technologist; Histology Technician</td>
<td>$28.63</td>
<td>$30.18</td>
<td>$51,770</td>
</tr>
<tr>
<td>Chemists</td>
<td>Research Chemist; Senior Chemist</td>
<td>$28.85</td>
<td>$35.94</td>
<td>$76,280</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>Process Engineer; Senior Research Associate</td>
<td>$33.79</td>
<td>$41.29</td>
<td>$85,880</td>
</tr>
<tr>
<td>Environmental Scientists and Specialists</td>
<td>Environmental Analyst; Staff Climate Scientist</td>
<td>$23.66</td>
<td>$33.37</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Science and Protection Technicians</td>
<td>Water Quality Analyst; Environmental Specialist</td>
<td>$18.90</td>
<td>$21.87</td>
<td>$45,490</td>
</tr>
</tbody>
</table>

Administrators should note various factors including licensing laws, job descriptions, employer makeup, and occupational popularity can affect wages and may account for some of the disparity between statewide and national averages.

*The Forum used Emsi Analyst™ to identify reported national and statewide median hourly earnings and occupational outlook data from the BLS to gather
Appendix: Reported Bachelor’s-Level Environmental Chemistry Degree Completions

Only one institution in the South outside of Florida (i.e., Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Oklahoma, and Tennessee) reports bachelor’s-level degree completions with the classification of instructional programs (CIP) code for environmental chemistry (i.e., 40.0509).

Reported Completions of Bachelor’s-Level Environmental Chemistry Programs
CIP Code 40.0509, 2015-2016 Academic Year, Regional Data

<table>
<thead>
<tr>
<th>Institution</th>
<th>Completions</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Georgia</td>
<td>4</td>
</tr>
</tbody>
</table>

IPEDS, Regional data includes Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Oklahoma and Tennessee
Dear Dr. Michael,

I read the proposal for development of an Environmental Chemistry B.S. degree program at University of South Florida St. Petersburg. I find this to be a very useful proposed program and support the creation of this degree at USFSP. As a scientist who has focused on environmental chemistry my entire academic career, I am keenly aware of the need for professionals who have a cross-disciplinary education. This type of education will provide students with this knowledge for both direct transition into industry or for graduate education in many areas of environmental science.

Our greatest environmental challenges are those that cross traditional academic silos. Solving these challenges will require scientists who use an approach that draws from physical and social sciences (including business and economics) and are capable of communication with experts from other disciplines.

I support the development of this degree program. I am confident the graduates of this degree program will find gainful employment in the Southeast and Coastal United States.

Sincerely,

Cherie L. Yestrebsky, Ph.D.
Pegasus Professor and Department Chair Chemistry
Department
Associate Director, National Center for Integrated Coastal Research 407.823.2135
Cherie.Yestrebsky@ucf.edu
Dr. Magali Cornier Michael  
Dean, College of Arts and Sciences  
University of South Florida St. Petersburg

Dear Dean Michael,

I am writing this letter to support your initiative at USF St. Petersburg to develop a program in environmental chemistry. I have examined the curriculum and I also had our Undergraduate Council in the Department of Chemistry here in Tampa, examine it as well. We all agree that it appears to be an excellent program.

We do have a few suggestions. The first is that we recommend that you make CHM 4411 (Physical Chemistry II) and elective and CHM 4130C (Methods of Instrumental Analysis) a requirement. We note, though, that Methods has a prerequisite of CHM 4060 (Chemical Literature) which is also an elective in your current curriculum.

In summary, I support the development of an environmental chemistry program at USFSP.

Best wishes.

Wayne C. Guida, Ph. D.
November 25, 2018

RE: Environmental Chemistry program proposal

Dear Dr. Michael:

I am writing this letter to express my support of the new Bachelor of Science (B.S.) in Environmental Chemistry program under development at the University of South Florida, St. Petersburg. I have reviewed the program, including the proposed curriculum, and have concluded that the program would be sufficient in providing a bachelor's degree level introduction to the field.

As noted in the provided rationale, there is a growing need for well-trained scientists in the area of Environmental Chemistry. This emphasis comes from increasing concern for the environment in modern society, largely due to the significant impact of humankind and population growth. The impact of modern technological and industrial advances on our earth is well documented, and a program such as the one proposed by USF-SP should help in producing the next generation of scientists capable of addressing these issues.

Specifically, the proposed Environmental Chemistry B.S. degree includes a curriculum with a heavy emphasis on the core areas of chemistry that are important for understanding basic chemical principles relevant to Environmental science (e.g., inorganic and physical chemistry). With the additional proposed Business and other Environmental coursework, a student completing this program will receive further insight into areas that are also vital in approaching current and future environmental issues with a broad perspective.

In closing, let me again express my support of the recently proposed Environmental Chemistry B.S. program at USF-SP. If I can be of further assistance in any way, please do not hesitate to call my office at (813)257-6340 or email me at ewerner@ut.edu.

Sincerely,

Eric J. Werner, Ph.D.
Chair, Department of Chemistry, Biochemistry and Physics
Associate Professor of Chemistry
The University of Tampa
October 18, 2018

Nevein Narouz, M.S.
Environmental Compliance Division
Water Resources Department
City of Saint Petersburg
1635 3rd Ave N
St Petersburg, FL 33713

Dear Dr. Toler,

As a Lead Chemist in the Environmental Compliance Division of the City of Saint Petersburg, I am delighted to write this letter of support for the proposal of developing a degree program in Environmental Chemistry at the University of South Florida Saint Petersburg. This program will be a great addition to the College of Arts and Sciences as an applied science program which will help to address and resolve environmental issues that continuously challenge our population.

In the past few decades, industries which produce fertilizers, processed food, plastics, etc., exclusively introduced harmful chemicals into the environment. This in turn affects our population on a global level and further influences the human health and biological balance in nature. This results in a huge demand for more Environmental Scientists who can identify, address, and resolve these issues in order to find ways to protect our environment.

I believe that the initiative of starting an Environmental Chemistry program at the College of Arts and Science at USFSP will adequately prepare the students to close the gap which currently exists in the world of environmental chemistry. A strong curriculum and exposure to real life experience by partnering with the City of Saint Petersburg Environmental Compliance Division will enable the students who successfully complete this degree to feed the growing job market.

Thank you for your consideration. Please let me know if you have further questions.

Sincerely,

Nevein Narouz

Nevein Narouz, M.S.
Lead Chemist
Environmental Compliance Division
Water Resources Department
City of Saint Petersburg, Florida
Email: Nevein.Narouz@stpete.org
Phone: 727-892-5690
October 22, 2018

To whom it may concern,

Pinellas County is dedicated to practicing superior environmental stewardship and recruiting the most diverse and talented individuals to create a quality workforce. Meeting these goals are easily achieved as academic institutions like the University of South Florida continue to develop curriculum based on the current and future needs of community, business, and government employers and partners.

The Environmental Management Division recognizes a number of benefits to offering a degree in Environmental Chemistry as students prepare for environmental careers. For example, there are growing needs for specialized environmental skills and understanding in biochemical relationships, applied chemistry, contaminant hydrology, and molecular chemistry within Pinellas County. Additionally, the Tampa Bay area is home to a competitive internship, capstone, and/or directed study market because there are a number of academic institutions that require these credit courses for graduation. Coursework in environmental chemistry is likely to make USF-SP students more qualified for existing opportunities and potentially expand the University’s ability to partner with organizations that might not have considered student interns in the past. Furthermore, specialized science degrees continue to make entry-level applicants “stand out” in highly competitive local, State, and Federal environmental job markets.

Pinellas County’s Environmental Management Division is reputable for mentoring students pursuing a variety of environmental degrees from local, state, and national academic programs and we look forward to the opportunity to share our expertise and expand the interest in environmental chemistry applications and careers.

Sincerely,

Kelli Hammer Levy, Division Director
Pinellas County Environmental Management

nad
October 17, 2018

Dear Board of Trustees,

Future generations depend on the plans and decisions we make today. At ZooTampa, animal and environmental conservation and sustainability are the cornerstones of our mission, providing knowledge so everyone we touch is motivated to join us in taking action to protect and preserve wildlife. ZooTampa is a Seafood Watch partner and is committed to serving only sustainable seafood in our restaurants, as well as feeding only sustainably sourced seafood to our animals. In addition, we sell only candy that is made with sustainable palm oil in our retail locations and at our themed events.

At ZooTampa, we fully support USFSP moving forward with the environmental sustainability studies and the Environmental Chemistry Program. We look forward to further providing input on curriculum and influencing the progress of the degree as well as its learning outcomes and objectives.

Best Regards,

Michelle Coleman, MBA, SHRM – SCP  
Vice President of Human Resources
Michelle.coleman@zootampa.org
March 15, 2019

To Whom It May Concern;

The University of South Florida St. Petersburg is approved to implement a new degree program in Environmental Chemistry. This program aligns with university priorities and its distinctive identity. The university will provide one-time funds to support creation of the teaching lab needed for the program along with necessary equipment. We anticipate those costs to be $750,000, which will come from Education and General carry-forward funds.

Thank you for final approval of this new program.

[Signature]

Regional Chancellor
USF St Petersburg
November 28, 2018

Dear Dr. Susan Toler,

On behalf of the College of Arts and Science Academic Program Committee (APC), I am delighted to write this letter in support of the Bachelor of Science degree program in Environmental Chemistry. The proposal of this major was anonymously approved by the attending APC committee members on November 26. Please let me know if you have any questions. Thank you.

Sincerely,

Dr. Suganthi Sridhar
Co-Chair, Academic programs committee
College of Arts and Science
Dear Members of the Academic Review Committees,

I write this letter in strong support of the Bachelor of Science degree program in Environmental Chemistry. The substantial growth in the number of students choosing STEM majors at USFSP over the past ten years indicates a clear interest in and need for such degree programs. The launching of the new STEM degree in Environmental Chemistry will strengthen offerings in the natural sciences, building on existing course offerings in Chemistry as well as in Environmental Science, Data Analytics, and Business. Indeed, the program offers a strong general Chemistry foundation with a focus on environmental studies and supplemented with practical scientific skills to meet a variety of employer needs—e.g. skills in data analysis, programming, business.

The Environmental Chemistry degree aims to prepare students to apply basic chemistry skills to address critical problems connected to the environment and human health. The demand for such skills is growing in the region and state of Florida as well as nationally and internationally, so the employment outlook for graduates of this degree program is projected to grow at a rapid pace. As the only such degree program in Florida, the new degree will offer a distinct experience for students with interests that align with its unique curriculum and goals.

The College of Arts and Sciences is well-positioned to launch this program, building on existing faculty resources and course offerings and supplementing these by redirecting College funds for additional faculty and course development. Moreover, the University has made a commitment to fund an additional teaching Chemistry laboratory by year five.

I wish to thank Dr. Susan Toler in particular for her dedication and collegial approach to pulling together this exceptional proposal in record time.

Sincerely,

Magali Cornier Michael, Ph.D.
Dean, College of Arts and Sciences
December 18, 2018

Dear Dr. Susan Toler,

On behalf of the USFSP Undergraduate Council, I would like to express our support for the Bachelor of Science degree program in Environmental Chemistry. The program received unanimous support from the committee.

Sincerely,

Mike Sinclair
Chair, USFSP Undergraduate Council
December 12, 2018

The Bachelor of Science (B.S) in Environmental Chemistry proposal responds to a critical STEM need, and reflects USFSP’s strategic priorities. Furthermore, the proposed program is consistent with the Florida State University System Strategic Planning Goals as they pertain to scholarship, research, and innovation; teaching and learning; business and community engagement. USFSP will be the first institution in the state of Florida to offer a full degree in Environmental Chemistry under IPEDs definition. As evident in the submission, the proposal has a broad support from our community and industry partners. The proposal would enrich the program portfolio of USFSP, and has my unequivocal support.

Thank you for your kind consideration.

Sincerely,

[Signature]

Dr. Olufunke A. Fontenot
Interim Regional Vice Chancellor for Academic Affairs
Hi Magali,

I had a look at the Environmental Chemistry degree proposal. It seems like a good fit for the St. Petersburg campus, with your focus on environment and sustainability. I think it is also a good complement to what is offered on other campuses. We do not have a short term plan for any chemistry major on the Sarasota-Manatee campus and our long term plan is for general chemistry or some other specialization, not environmental chemistry. However, we do offer all of the prerequisites you list on the USFSM campus and would certainly direct any students interested in Environmental Chemistry your way for their upper-level courses if you were to have that degree.

Let me know if I can be of any further assistance.
Best Regards,
Paul

Paul Kirchman, Ph.D.
Dean, College of Science & Mathematics
University of South Florida Sarasota-Manatee
8350 N. Tamiami Trail B320 | Sarasota, FL 34243
Office: 941-359-4437

University of South Florida
Sarasota-Manatee

usfsm.edu

Records of the University of South Florida are subject to disclosure under the Florida Public Records law unless exempt by law.
DATE: March 7, 2019

TO: Dr. Magali Michael
Dean, College of Arts and Sciences
University of South Florida St. Petersburg

FROM: Dr. Jacqueline Dixon
Dean, College of Marine Science
University of South Florida

RE: Proposed Bachelor of Science in Environmental Chemistry

I would like to express my full support for the proposed Bachelor of Science degree in Environmental Chemistry at the University of South Florida St. Petersburg. The College of Marine Science is located on the Bayboro Peninsula on the USF St. Petersburg campus. However, because the College of Marine Science is a research-focused, Ph.D.-granting college, we are administratively a part of the University of South Florida, Tampa campus. In spite of this, we already have a close working relationship with the Biology program at USFSP. We currently teach at least two elective courses per year to undergraduate Biology students at USFSP. We anticipate extending this arrangement to include offering our lower level graduate courses in chemical oceanography to USFSP undergraduate Environmental Chemistry majors. The presence of a world-class oceanographic research college in close proximity to USFSP provides opportunities for undergraduates to participate in cutting-edge research projects with our faculty. We currently provide research internships to 20 to 30 undergraduates per year.

We look forward to working with USFSP to ensure the success of the proposed Environmental Chemistry degree.
APPENDIX G
Faculty Curriculum Vitae

Henry A. Alegria Ph.D.
University of South Florida St. Petersburg, DAV 2216, 140 7th Ave. S., 33701
Tel. (727)873-4777  Email:halegria@mail.usf.edu

EDUCATION

University of South Carolina, Columbia, SC

University of South Carolina, Columbia, SC

Harding University, Searcy, AR
B.S. in Chemistry (Magna Cum Laude), May 1990.

PROFESSIONAL EXPERIENCE

08/10 – 07/11: Galen University, Belize, Central America
President & Provost (leave of absence from USF St Petersburg)

09/06 – present: Dept. of Environmental Science, Policy & Geography, USF St Petersburg
Assistant to Associate Professor of Chemistry

09/02 – 08/06: Department of Chemistry, California Lutheran University
John Stauffer Endowed Professor of Analytical Chemistry (Associate Professor), promoted to Professor in May 2006

09/96 - 08/02: Dept. of Biology, Chemistry, & Veterinary Technology, Newberry College
Assistant Professor of Chemistry, tenured 2001

ACADEMIC RECORD

Administrative Positions

(08/2010 – 05/2011): President & Provost of Galen University (Belize, Central America). Responsible for managing a private institution of ~400 students and 10 undergraduate and 3 graduate programs. Significant accomplishments:
• increased enrollment from ~275 to ~400 students
• led restructuring of the university into coherent programs with directors
• led revamping of curricula of all programs
• spearheaded successful efforts to maintain accreditation of 9 undergraduate programs via the University of Indianapolis during a complicated take-over of the institution
• consolidated successful off-campus programs in business administration and social sciences
• led accreditation of the accounting and professional MBA program via partnership with the University of Indianapolis
• introduced accredited graduate program in secondary education via partnership with UNC - Wilmington

(08/2011 – 12/13): Department of Environmental Science, Policy & Geography - USF St Petersburg. Significant accomplishments:
• successfully led redesign of undergraduate curriculum and introduction of a new Concentration in Sustainability
• led efforts to redesign departmental ALCs
• introduced a non-thesis M.A. in Environmental Science
(01/2004 - 05/2006): Chair of the University Honors Program – California Lutheran University. Significant accomplishments:

• led the program as it redesigned its curriculum
• introduced more science courses, a thesis requirement and a service component

(08/2002-05/2006): Director of Environmental Science Program – California Lutheran University. Founding director of the program. Significant accomplishments:

• led its increase in enrollment from 12 to over 100 majors and over 75 minors in four years
• instituted a successful internship requirement in partnership with area companies
• led successful fundraising efforts that generated over $1M in endowments for the program

Student Research:

• Supervised 1 Ph.D. and 9 M.S. students as Thesis Advisor
• Supervised over 40 undergraduate students, leading to over 15 Senior/Honor Theses, 24 conference presentations

Courses taught:

Chemistry courses

• Organic Chemistry, Analytical Chemistry, Instrumental Methods, General Chemistry, Special Topics in Analytical Chemistry, Advanced Organic Chemistry, Chemistry for Non-Majors, Environmental Chemistry (graduate & undergraduate), Atmospheric Chemistry (graduate & undergraduate), Senior Capstone in Chemistry

Environmental Science courses

• Introduction to Environmental Science, Fate and Transport of Environmental Pollutants, Environmental Philosophy and Ethics, Society and the Environment, At Home in the Universe (team-taught foundation honors science course), Environmental Protection in Developing Countries (study abroad course), Rainforests to Reefs (study abroad field course course), Field Methods in Tropical Terrestrial and Marine Ecosystems (study abroad course), Environmental Science Internship Coordinator

Committees:

• Tenure & Promotion, Admissions, Safety, Institutional Review, Academic Programs, Education Planning & Policy, Graduate Program, Graduate Admissions, Faculty Council

Outreach/Service:

• Served as External Opponent for two doctoral defences at Tallinn University of Technology
• Served as Chair of Doctoral Defence for two students in Marine Science
• Mentor in the STREAMS (Supporting Talented and Remarkable Environmental and Marine Science Students) Scholarship Program – program to attract and retain historically under-represented groups in the sciences (2007-2011)
• Organized departmental Colloquium (2007-2010 and 2015-2016)
• Reviewer for several journals (including: Environmental Science and Technology, Chemosphere, Environmental Pollution, Atmospheric Environment, Environmental Technology, Soil and Sediment Contamination An International Journal, Environmental Science and Pollution Research, Atmospheric Pollution Research, and African Journal of Environmental Assessment and Management)
• Editor of The Scientific World Journal (2009-2016)
• Co-founded and co-organized the Annual Student Research Symposium at CLU (2003 - 2006)
• Volunteered as chemistry instructor for Upward Bound and Math/Science Upward Bound (2002 – 2006)
• Instructor for the Amgen Summer Science Institute, to train high school teachers on pedagogical methods to teach chemistry and environmental science (2003, 2004)
• Volunteered as mentor to students of color in the “FOCUS” Mentoring Program sponsored by the Office of Multicultural and International Programs (2002 – 2006)

RESEARCH/CONSULTING EXPERIENCE AND INTERESTS
• Fate and transport of pollutants in air, soil and water; modeling and determination of the impact of pollutants on sensitive ecosystems and on human health; chiral analysis of pesticides
• Developing analytical methodology for emerging contaminants in surface waters
• Pedagogical methods to improve science education, especially development of interdisciplinary approaches to teaching Environmental Chemistry and Environmental Science
• Consulting experience: sound management of chemicals (SMOC), fate and transport of pollutants, EIAs, alternative sources of energy

PUBLICATIONS

Articles

In Preparation:

Talajal, L. and Alegria, H.A. “Preliminary assessment of levels and sources of PCBs and PBDEs in ambient air of Tampa Bay.” Submitted to Air Pollution Research.


Published:
Galindo-Reyes, J.G and Alegria, H.A.* “Toxic effects of pesticide contamination in farmworkers of Novolato, Sinaloa (Mexico).” Revista Internacional de Contaminacion Ambiental 2018, 34(3), 505-516. DOI: 10.20937/RICA.2018.34.03.12


**Book Chapters**


**TECHNICAL REPORTS**


Alegria, H.A. “Development of a medical waste management and disposal plan for the Western Corridor of Belize.” Final report submitted to UNIDO, August 14, **2018**.

Alegria, H.A. and Alegria, V. “Quantification of PCB levels in oil stored at ADM Mills and repackage for final disposal.” Final report submitted to ADM Mills, April 15, **2016**.

Alegria, H.A., Alegria, V., Carrias, A. “Verification, classification and inventory of existing stockpiles of Persistent Organic Pollutants (POPs), Pesticides and Polychlorinated Biphenyls (PCBs) and other chemicals to enable Belize to fulfill


PATENTS


PRESENTATIONS AND INVITED LECTURES

Conferences
Alegria, H.A. “Cycling of legacy and emerging flame retardants in the Tampa Bay area.” Presented at the 38th Annual Meeting of the SETAC, Minneapolis, Minnesota, November 12-16, 2017.


Alegria, H.A. “Movimiento de sustancias organicas y sus efectos en arrecifes de corales.” Plenary lecture delivered at the X Congreso de Biotecnologia, Chiapas, Mexico, May 29, 2015.


Alegria, H.A. “Setting up a country-wide atmospheric monitoring system: Lessons learned from passive samplers.” Invited talk at the Workshop to develop Mexico’s Environmental Monitoring and Assessment Program (PRONAME), Cuernavaca, Morelos, Mexico, February 13-15, 2007.


Alegria, H.A. “Perspectives on the Stockholm Convention on Persistent Organic Pollutants (POPs) and the Status of Mexico With Respect to POPs.” Invited lecture presented at the VI Congreso de Toxicologia, Universidad Nacional Autonoma de Mexico, July 6-7, 2006.


Invited lectures

Alegria, H.A. “Case studies on cycling of new flame retardants in indoor and outdoor environments.” Tartu University, December 6, 2017.


Alegria, H.A. “Persistent Organic Pollutants in Developing Countries.” Invited lecture delivered at Istanbul Technical University, February 21, 2014.


Alegria, H.A. “Is DDT Detected in North America of recent origin?” Invited lecture delivered at Akdeniz University, April 11, 2014.

Alegria, H.A. "Historical analysis of POPs input into Jobos Bay, Puerto Rico." Invited lecture presented at the University of Rhode Island, November 14, 2014.

Alegria, H.A. “Prioritizing environmental research needs for GEF funding.” Invited talk at the 5th Annual UNDP Meeting, Belmopan, Belize, April 8, 2011.

Alegria, H.A. “Sound management of chemicals: the CEC experience.” Invited presentation at The University of Toronto, August 12, 2009.

Alegria, H.A. “Tracing fate and transport of molecules via chiral analysis.” Invited lecture presented at the Annual Environmental Research Interdisciplinary Colloquium (ERIC), University of South Florida, September 17, 2008.


**STUDENT PRESENTATIONS**


Porto, J. and Alegria, H.A. “Developing an experiment to measure levels of selected pharmaceuticals in tap water for integration in the chemistry curriculum.” Poster presented at the 71st SWRM/67th SERMACS Meeting of the ACS, Memphis, TN, Nov 4-7, 2015.

Emrich, K. and Alegria, H.A. “Assessing the impact of untreated sewage on coral reefs off Caye Caulker, Belize: Applying the FORAM Index.” Presented at the ERIC seminar series, University of South Florida Tampa, November 7, 2014.


In addition, student research collaborators have presented over 20 talks at in-house research symposia.

GRANTS AND CONTRACTS


Alegria, H. “Consultancy to develop a Medical Waste Disposal Plan.” $25,000USD, Department of the Environment (Belize), November 15, 2017.

Alegria, H., and Alegria, V. “Quantification of PCB levels in oil stored at ADM Mills and repackaging for final disposal.” $20,000USD, ADM Mills, January 2015.

Alegria, H., Alegria, V., Carrias, A “Verification, classification and inventory of existing stockpiles of Persistent Organic Pollutants (POPs), Pesticides and Polychlorinated Biphenyls (PCBs) and other chemicals to enable Belize to fulfill its obligations under the Stockholm Convention on POPs.” $27,500BZD, GEF, November 2015.

Alegria, H. “Acquisition of a GC-MS.” $298,000USD, USF One-To-One Matching Program, April 2015.

Alegria, H.A. “Levels of OP and novel flame retardants in soil and air of Bursa, Turkey.” National Scientific and Research Council of Turkey, $72,000TL ($36,000USD), visiting fellowship awarded December 12, 2013.

Nickle, U. and Alegria, H.A. “Measuring levels of pyrethroids in storage depots, work vehicles and clothes of lawn applicators and assessing the take-home potential.” CSPACE (USFSP) Mini-grant, $1,000USD, October 2013.


K. Emrich and Alegria, H.A. “Assessing the Impact of Sewage Discharge from Caye Caulker on the Belize Barrier Reef - Application of the FORAM Index.” and CSPACE (USFSP) Mini-grant, $1,000USD, October 2013.


Alegria, H.A. “Assessing the Impact of Sewage Discharge from Caye Caulker on the Belize Barrier Reef – Application of the FORAM Index.” USF Internal Grant, $8,000USD, awarded December 15, 2012.


Alegria, H.A. “Mainstreaming into development plans the sound management of chemicals (SMC) priorities for key development sectors in Belize and associated governance project.” UNDP, $20,000USD, consultancy awarded August, 2010.

Carvalho-Knighton, K; Pyrtle, A.; Alegria, H.A.; Fanning, K. “STREAMS-Supporting Talented and Remarkable Environmental And Marine Science students.” NSF, $541,796.00USD, awarded August 2007.


Alegria, H.A. “Persistent Organic Pollutants (POPs): Sources, Environmental Cycling, Toxicology and Fate.” External instructor contracted by the Kuwaiti Institute for Scientific Research, $28,000USD, workshop May 20-24, 2006.


Alegria, H.A. “Measuring POPs: Analytical methodology.” Co-instructor (with Professor Crispin Halsall) of workshop to train graduate students and research staff at government laboratories, $10,000USD, Lancaster University, United Kingdom, July 10-16, 2005.


Bidleman, T.F.; Alegria H. A.; Wong, F. “Organochlorine pesticides in the ambient air and soil of southern Mexico.” USEPA, $150,000USD, grant awarded July 2005.


Shaw, M.; Alegria, H.; Revie, D.; Richards, R. “Funding to Establish the Keck Institute for Bioengineering Design and Integrated Science at California Lutheran University.” W.M. Keck Foundation, $200,000USD, grant awarded July 2004.

Alegria, H.A. “Designing a seminar series on contributions of non-Caucasians to scientific advancement.” Irvine Foundation, $2,000USD, grant awarded January 2005.


Alegria, H.A. “Acquisition of equipment for research in environmental chemistry.” Community Leaders Association, $14,500USD, grant awarded January 2004.


Alegria, H.A. “Acquisition of equipment for a trace organic analytical laboratory.” Community Leaders Association, $7,000USD, grant awarded November 2002.


Shaw, T.J.; Alegria, H.A.; Scott, G. “Determination of environmental effects of an oil spill in Georgetown, South Carolina.” South Carolina Department of Health and Environmental Control, $102,000USD, contract awarded June 2001.

Alegria, H.A. “Designing an undergraduate chemistry programme for the University of Belize.” University of Belize, $5000USD, consultancy awarded April 2001.
Alegria, H.A. “Airborne pesticides in the Mexico-Central America region.” Environment Canada, TSRI#11, $42,080CAD, contract awarded June 1, 2000.


Alegria, H.A. and D’Alessandro, T.L. “Impact of acetochlor in surface waters of Winyah Bay, South Carolina.” Consortium for Undergraduate Research, grant awarded May 1998, $2,389USD.


Alegria, H.A. “Temporal trends in chlordanes and toxaphene in ambient air in Columbia, South Carolina.” Atmospheric Environment Services (Canada), contract awarded August 1994, $3,500 USD.

HONOURS AND SOCIETIES

Fullbright Specialist to Estonia – CIEES (2015)
TUBITAK Visiting Scholar Fellowship - National Scientific and Research Council of Turkey (2014)
USF Ambassadors Outstanding Teacher Award (2007 and 2008)
Appointed Board Member of the Patel Center for Global Solutions (2007-2010)
Appointed as expert consultant to the PRONAME project by Instituto Nacional de Ecologia (Mexico) - air monitoring section (2007)
Appointed to the task force on Sound Management of Chemicals (SMOC) – Commission for Environmental Cooperation (2006)
Bouknight Award for Outstanding Graduate Teaching Assistant (1992, 1995)
Harding University Top Science Graduate Award (1990)
NSF Science Alliance Undergraduate Fellowship – Univ. of Tennessee (1989)
Harding University American Studies (now Honors College) Outstanding Student (1989)
Alpha Chi National Honour Scholarship Society (1988)
Dean’s List (1987-90)
Walton Foundation Scholar (1987-90)
Shell Corporation Scholarship (1984-86)

Yasin F. Elshorbany

Assistant Professor of Chemistry, Environmental Sustainability and Climate Change, College of Arts & Sciences, University of South Florida St. Petersburg 140 7th Avenue South, DAV 234, St. Petersburg, FL 33701

Personal Information:
Surname, Name: Elshorbany, Yasin F.
Telephone: +1(727) 873 4494
Mobile: +1(410) 794 6406
E-mail: yelshorbany@gmail.com, elshorbany@mail.usf.edu
Researcher ID: B-3661-2008
ORCID ID: http://orcid.org/0000-0001-8883-3522

Education:

http://www.scopus.com/authid/detail.url?uri=authorId=16444177900
• Max-Planck Institute for Chemistry, Mainz, Germany: Postdoctoral fellowship, from 04/2011 to 04/2014
• University of Wuppertal, Wuppertal, Germany: PhD with Excellent grade (Summa Cum Laude), Physical Chemistry, January 2010.
  o Title of the PhD thesis: Investigating the Tropospheric Oxidation Capacity and Ozone Photochemical Formation in the city of Santiago de Chile, Field Measurements and Modeling Study.

Awards and Honors:
• PhD with Excellent grade (Summa Cum Laude), Physical Chemistry, University of Wuppertal, January 2010, Germany.
• Best PhD Thesis Award, 2010, University of Wuppertal, Germany.
• International Travel Award to participate in the GEOS-Chem meeting at Harvard University, Cambridge, USA, 2011.
• International Postdoctoral Fellowship for 3 years (2011-2014) at the Max-Planck Institute for Chemistry in Mainz, Germany.
• National Science Foundation (NSF) Award: AGS 1826956, 2018 to investigate the day time HONO chemistry in the marine boundarylayer.

Employment History.
8/2018 – current:
  Assistant Professor of Chemistry, Environmental Sustainability and Climate Change, College of Arts & Sciences, University of South Florida St. Petersburg
7/2017 – 7/2018:
  Research Scientist I at NSIDC/CIRES, University of Colorado-Boulder.
05/2014 – 6/2017:
  Research Scientist at NASA GSFC and University of Maryland-College Park.
04/2011 – 05/2014:
  Postdoctoral Fellow at Max-Planck institute for Chemistry, Mainz, Germany.
1/2010 – 03/2011:
  Postdoctoral Research Associate at the University of Wuppertal, Germany.
08/2004 – 01 2010:
  Research Assistant at the University of Wuppertal, Germany.
01/2004 - 2014:
  National Research Center, Cairo, Egypt, Research scientist.
1996 - 08/2004:
  Cairo University, Egypt, Environmental scientist, Calibration and maintenance manager at the Center of Environmental Hazards Mitigation (CEHM).

Scientific Community Services:
• Leading the working group on Africa and Middle East within the Tropospheric Ozone Assessment Report (TOAR), http://www.igacproject.org/TOAR.
• Co-lead of Chapter 1 of the TOAR report.
• Primary convener and chair of 3 sessions on the “Atmospheric Oxidation Capacity Constraints” at the AGU 2015-2017 fall meetings.
• 2015-2016, Chair of the atmospheric chemistry and carbon affinity group at the Earth System Science Interdisciplinary Center (ESSIC) of the University of Maryland (http://essic.umd.edu/joom2/index.php/research-tasks/affinity-groups/atmospheric-chemistry).
• Professional Reviewer:
  1. Via Nominations
    • Nominated to participate in the 2017 Decadal Survey for Earth Science and Applications from
Space.

2. Journals
- Atmospheric Chemistry and Physics
- Atmospheric Environment
- Journal of Geophysical Research
- Environmental Science and Pollution Research (ESPR)
- Environmental Science & Technology

3. Funding agencies
- NASA Scientific Reviewer
- External reviewer for the Chilean Government Commission for Scientific Development (CONICYT).
- Reviewer of the AGU 2015-2016 student travel grants.

In-Review articles:

Peer reviewed articles:
- Elshorbany, Y., and Schurath, U.: Comparisons of observed and modeled OH and HO2 concentrations during the ambient measurement period of the HOxComp field campaign, Atmos. Chem. Phys., 12, 2567-2585, doi:10.5194/acp-12-2567-2012, 2012.
- Niedojadlo, A.; Kurtenbach, R.; Becker, K.-H.; Wiesen, P.; Schady, A.; Sowka, I.; Elshorbany, Y.; Zwozdziak,


- Stemmler, K., Ndour, M., **Elshorbany, Y.**, Kleffmann, J., Ammann, M., D’Anna, B., George, C., and Bohn, B.: Induced conversion of nitrogen dioxide into nitrous acid on submicron humic acid aerosol, Atmospheric Chemistry and Physics, 7, 4237-4248, 2007.


- Shawali, A. S., Abdallah, M. A., Mosselhi, M. A. N., **Mohamed, Y. F. (Elshorbany, Y. F.):** Synthesis and tautomeric structure of 1,2-bis(7-arylhydrazono-7H- [1,2,4]triazolo[3,4-b][1,3,4]thiadiazin-3-yl)ethanes; Zeitschrift für Naturforschung Section B-A J. of Chemical Sciences, 57 (5), 552-556, 2002.


**Books:**


**Teaching Experiences at the University of Wuppertal:**

Starting from winter semester 2005/2006, I started to have assisting teaching duties at the University:

- Exercises of Kinetics (winter semester, 2005/2006)
Exercises of Statistical thermodynamics (summer semester, 2006)
Exercises of Structure of Materials and Spectroscopy (winter semester, 2006/2007)
Laboratory experiments of the Physical chemistry 1 course (2007-2011)
Laboratory experiments of the Physical chemistry 2 course (2007-2011)

Computer Skills:
1. PC User: Microsoft office and windows
2. Power User: UNIX/LINUX environments
3. Programmer and Earth system Modeler: familiar with Fortran, Facsimile, Ferret, IDL
   A. Box modeling using Facsimile and Fortran models based on the Master Chemical Mechanism, MCM.
   B. Regional-Global modeling using the GEOS-CHEM model.
   C. 3D Climate-Chemistry modeling, EMAC model, NASA GEOS5-CCM model.

Field and Laboratory Research Projects:

10.10.04 - 21.10.04
• Measurements campaign in EUPHORE (European photo reactor)-smog chamber in Valencia-Spain for the evaluation and validation of the new developed HNO3 LOPAP instrument.

16.01.05-30.01.05
• Measurements campaign in EUPHORE -smog chamber in Valencia-Spain for the evaluation of the health effects of the Diesel exhausts of a newly developed Ford-made motor in cooperation with Prof. Barbara Zielneska from the Desert Research Institute (DRI) in USA in addition to the validation of the new developed NO2 Denuder.

06.03.05-22.03.05
• DAAD funded field-project for the evaluation of the oxidation capacity during summer in Santiago de Chile including measurements all the sources and sinks of the OH radicals in the troposphere.

23.05.05-09.06.05
• DAAD funded field-project in Santiago de Chile for the evaluation of the oxidation capacity during winter in the city, Henry law constants in dew for HONO and HCHO and the evaluation of the emission indices.

21.08.05-05.09.05
• DBU funded field-project in Breslau-Polen in cooperation with Breslau University for the evaluation of the solvents sources in the city.

26.09.05-07.10.05
• Laboratory HONO - Aerosol measurements joint campaign at Paul-Scherer-Institute (PSI) in Villigen-Switzerland.

09.04.07-21.04.07
• Laboratory HONO - Ice measurements joint campaign at Paul-Scherer-Institute (PSI) in Villigen-Switzerland.

18.06.07-11.07.07
• Filed campaign for the Investigation of the oxidation capacity in the rural Area of Grignon, Paris, France.

10.06.10-28.06.10
• International FIONA Measurements campaign at the EUPHORE -smog chamber in Valencia-Spain for the validation of HONO different measurements techniques, Valencia, Spain.

15.06.10-01.08.10
• International ECATS Measurements campaign to investigate the emissions from different newly developed Jet-engine fuels and to determine their impact on the atmosphere.

Appendices: More details

Attended Workshops and Conferences:


4. 03-05 March, 2008: EUROCHAMP/ACCENT Invited Expert Workshop on Nitrous acid: Tropospheric Chemistry, Measurement Methods and Future Directions held at the Bergische Universität Wuppertal (BUW), Germany.

5. 27-29 March 2007, 6th International conference on Urban Air Quality, Limassol, Cyprus.

6. 11-19 April, 2008, EGU 2008 Conference in Vienna, Austria.


8. September 23 – 25, 2009. The specialized meeting of the German chemical society (GDCh Fachgruppentagung), Trier, Germany.


12. October 8 – 10, 2010. The international conference on Atmospheric Chemical Mechanism (ACM 2010), UC Davis, CA, USA.

13. 03-08 April 2011, EGU 2011 Conference in Vienna, Austria.

14. 30 April - 5 November, GEOS-Chem meeting at Harvard University, Cambridge, USA, 2011.

15. 09-13 October 2011, NATO Advanced Research Workshop in Gdansk, Poland.

16. 14-16 February 2012, 2nd Annual EMAC Symposium, MPIC, Mainz, Germany

17. 22-27 April 2012, EGU 2012 Conference in Vienna, Austria.

19. 12-14 June 2013, 3rd Annual EMAC Symposium, KIT, Karlsruhe, Germany.

20. 22-26 September 2014, 13th International Global Atmospheric Chemistry (IGAC) conference, Natal, Brazil.

21. 28-30 April, 2015, TOAR Workshop 1.02, Madrid, Spain

22. 14-19 December 2015, American Geophysical Union, San Francisco, CA, USA.


24. 12-16 December 2016, American Geophysical Union, San Francisco, CA, USA.

25. 10-16 December 2017, American Geophysical Union, New Orleans, LA.

Posters and Talks (conference papers):


2. Examining the Oxidation capacity in Santiago De Chile City. Ralf Kurtenbach, Peter Wiesen, Jörg Kleffmann, Yasin Elshorbany. The German Chemical Society (GDCh) yearly conference 2006 in Environmental chemistry and Biology 4.- 6. October, 2006, Martin-Luther-Universität, Halle-Wittenberg.


- IGAC : 10th International Conference, Annecy, France, 2008-09-07:

• EUROCHAMP/ACCENT Invited Expert Workshop on Nitrous acid: Tropospheric Chemistry, Measurement Methods and Future Directions held at the Bergische Universität Wuppertal (BUW), Germany:

10. Increased HONO formation in smog chamber photo-oxidation experiments of 1,3,5 trimethylbenzene. J. Dommen, A. Metzger, K. Gaeggeler, Y. Elshorbany, J. Kleffmann.


• EGU 2008 Conference in Vienna:


• EGU 2009 Conference in Vienna:


19. Summertime photochemical ozone formation in Santiago, Chile December 10-12, 2008. Atmospheric Chemical Mechanisms held at the University Of California, Davis, USA.

20. Seasonal Dependence of the Oxidation Capacity of the City of Santiago de Chile September 23 – 25, 2009. The specialized meeting of the German chemical society (GDCh Fachgruppentagung), Trier, Germany


• ACM2010 Conference in Davis, CA, US:

• Atmospheric Chemical Mechanisms Conference, University of California Davis, 6-10.12.2010.

• EGU 2011 Conference in Vienna:

• 09-13 October 2011, NATO Advanced Research Workshop in Gdansk, Poland.
  25. HOx Budgets during HOxComp: a Case Study of HOx Chemistry under NOxlimited Conditions, 09-13 October 2011, NATO Advanced Research Workshop in Gdansk, Poland.

• EGU 2012 Conference in Vienna:

• 12-14 June 2013, 3rd Annual EMAC Symposium, KIT, Karlsruhe, Germany.
  27. Global and Regional Impact of HONO on aerosol and cloud composition, Elshorbany, Y. F., Crutzen, P., Steil, B., Pozzer, A., Tost, A., Lelieveld, J.

• 22-26 September 2014, 13th International Global Atmospheric Chemistry (IGAC) conference, Natal, Brazil: Global and Regional Impact of HONO on aerosol and cloud composition, Elshorbany, Y. F., Crutzen, P., Steil, B., Pozzer, A., Tost, A., Lelieveld, J.

• 14-19 December 2014, American Geophysical Union (AGU), San Francisco, CA, USA: Model analysis of the factors regulating trends and variability of methane, carbon monoxide and OH, Elshorbany, Y. F., et al., 2014.


John P. Osegovic, Ph.D.

3964 Neptune Dr. SE
St. Petersburg, FL 33705
Ph: 813-335-8161
josegovic@gmail.com

Profile Brief: experienced educator and research manager. Managed multi-million dollar research programs, teams of up to 40 individual, and multi-section classes up to 800 students. Experience in natural gas processing and petroleum geochemistry.
**Professional Experience**

<table>
<thead>
<tr>
<th>Present</th>
<th>Instructor, University of South Florida St. Petersburg</th>
<th>General and Physical Chemistry Instruction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present</td>
<td>Consultant</td>
<td>Consulting on patents, research reviews, geochemical opinion, natural gas and natural gas hydrates</td>
</tr>
<tr>
<td>2011-2013</td>
<td>Visiting Instructor, University of South Florida Department of Chemistry</td>
<td>Taught Analytical Chemistry lecture and labs, General Chemistry I &amp; II, General Chemistry II labs, and Chemistry for Engineers</td>
</tr>
<tr>
<td>2003-2010</td>
<td>Vice President, Chief Chemist</td>
<td>Project management, IPR management, catalyst development, pilot plant construction, managed team of 5 scientists and engineers. Negotiated with customers and other stakeholders.</td>
</tr>
<tr>
<td>2001-2003</td>
<td>Visiting Assistant Professor</td>
<td>Taught all levels of chemistry classes. Managed 35 instructors and 1300 student laboratory classes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999-2000</td>
</tr>
<tr>
<td>1990-1995</td>
</tr>
</tbody>
</table>

**Patents**


**Papers**


Presentations

Nucleation and growth constraints and outcome in the natural gas hydrate system OS53D-04. 2016 Fall AGU Meeting, San Francisco, CA. to session OS53D Experiments, Modeling, and Field Studies on Gas Hydrate Formation II.

Growing Gas Hydrates. Invited presentation to the MIGHTY Conference, University College, Dublin, Ireland 5 December 2016.


Innovating with Gas Hydrates. USF Department of Chemical Engineering, Tampa, Florida, Invited, 22 January 2010.


An Introduction to the Significance and Application of Gas Hydrates. Society of Mechanical Engineers Florida Section, 6 January 2009.


Professional Memberships: American Chemical Society and American Geophysical Union.

Technical Reports and Manuscripts


Hosted Visitors and Organized Events

1. November 2014. Former President Mohamed Nasheed of the Maldives. “The Island President.” Organized with Dona Stewart with support from Frank Diafora (Dean USFSP College of Arts and Sciences) and Mathew Morin (Director USFSP Student Government). Involved organizing event location, security, a film screening, food, advertising, and coordination. Event attracted ~200 students, faculty, and members of the public.

2. November 2014. Sir Robert Swan. Came to USFSP to discuss climate and environmental activism. Organized an informal meeting between him and several undergraduate and graduate students over coffee and an open event for all students. Short notice (~3 days): performed marketing, organization, and escort duties. Coffee meeting had 6 students and 1 faculty member. About 35 students, faculty, and staff attended the main lecture.

3. September 2014. Faculty Perspectives on Climate Change. Organized to discuss the events of the UN New York Climate Summit. Organized speakers, food, advertising, location. Attended by approximately 40 students and faculty.

4. April 2015. USFSP Hâiku-a-Palooza. A contest for students to write about their classes and earn prizes. Founding organizer.


Courses Taught or Managed

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry I</td>
<td>Quantum mechanical model of the atom, the electromagnetic spectrum, periodic properties, chemical bonding, state of matter, solutions</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>Calorimetry, thermodynamics, kinetics, equilibrium chemistry, electrochemistry, radiochemistry, descriptive inorganic chemistry</td>
</tr>
<tr>
<td>General Chemistry Laboratory Coordinator</td>
<td>Laboratory Manager (General Chemistry I and II). 50 TAs. Instructed new TAs on lab requirements and teaching strategies.</td>
</tr>
<tr>
<td>Chemistry for Engineers</td>
<td>Covers the topics of General Chemistry I and II in one semester.</td>
</tr>
<tr>
<td>Organic Chemistry Laboratory Coordinator</td>
<td>Laboratory manager (Organic I and II): 40 TAs. Instructed new TAs on lab requirements and teaching strategies. Presented laboratory lecture.</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td>Quantitative analysis, statistical analysis, calibration, volumetric analysis, electrochemistry, spectroscopy, chromatography, gravimetric analysis</td>
</tr>
<tr>
<td>Physical Chemistry I</td>
<td>Thermodynamics, kinetics, chemical potential, equations of state, Laws of Thermodynamics, mechanics of thermodynamics</td>
</tr>
<tr>
<td>History of Chemistry</td>
<td>Explores the history of chemistry from the thought experiments of the ancients through the discovery of conservation of mass and energy into the modern quantum age.</td>
</tr>
<tr>
<td>English Composition (assisting)</td>
<td>English Composition for Science Majors</td>
</tr>
</tbody>
</table>

University Service

Committees

1. 2015-2016 USFSP ESPG Curriculum Committee (member)
   Charged with reviewing and revising the USFSP ESPG Bylaws. Created outline and documents to facilitate process.

2. 2015-2016 USFSP ESPG Bylaw Committee (member)
   Reviewed and edited course proposals for State of Florida General Education classes.
   Reviewed proposal for Geology Major.
   Reviewed course proposal for re-organization of undergraduate degree programs. Reviewed new courses to support re-organization of undergraduate degrees.

3. 2015 USFSP Student Bold Gold: Student Success Subcommittee (member)
   Investigated the success and failure profile of USFSP undergraduates.
   Discussed and initiated plans for USF student success related engagement activities (one such activity grew to become the CAS Major Declaration Event).
   Debated how to generate a campus-wide culture of success. Committee completed its mandate and was dissolved May 2015.

4. 2015-2016 USFSP General Education Subcommittee (member)
   This committee has been charged with:
   1. Reviewing the general education schedule to determine if it meets the needs of freshmen and sophomores (Conclusion: the current schedule is successful).
   2. How to develop and implement an early warning tools to identify students that are in danger of failing a general education course.
Course Development for USFSP

CHM 3030: Chemistry for Sustainability (accepted)
IDS 4942: Practicing Sustainability (under review)
CHM 2020: Chemistry for Liberal Studies (accepted)

Undergraduate Researchers


Event Photography for USFSP

3. 22-23 September 2015. ICARS.
5. 26 March 2016. Major Declaration Day. An event for underclassmen to celebrate joining their major program.
7. 5 March 2016. “Cymbeline.” A staged play by the USFSP Shakespeare Society.
8. 13-14 September 2016. ICARS.
9. 25 Feb 2017 “Twelfth Night” A play staged by the USFSP Shakespeare Society. Images used by the Crow’s Nest.
10. 5 March 2017 “Hamlet” A play staged by the USFSP Shakespeare Society.
11. 4-5 October 2017, ICARS.
12. 5 November 2017, “Julius Caesar” A play staged by the St. Petersburg Shakespeare Festival.

Other University Service

2018. Working with the Environmental Chemistry CIP Code team. Role unestablished.
2017. Sustainability Studies CIP Code team member. Part of initial leadership, this team created a proposal to bring a Sustainability Studies major CIP code to USFSP campus. (Accepted)
2017. Help develop the Environmental Chemistry new major preproposal. (Accepted)
2016 & 2017. Worked with USF College of Marine Science Machine Shop to develop an internship program for high school students. (2 high school students placed)
2017. Placed an undergraduate student in the College of Marine Science as an intern.
2017 – ongoing. Helping to establish laboratory to support undergraduate research.

2018. Faculty promotion committee. Left committee due to policy limitation on Instructor I service on committee.
2018. Serving on 1 tenure track and 2 instructor line faculty searches.
Travel for USFSP
May – June 2018: visiting instructor at Changzhi University, Changzhi China. Presented General Chemistry in English, Solar System Ices, and a review of clathrate hydrates. Mentored several Chanzhi University students. Participated in inaugural interdepartmental tug of war competition.

Managed Contracts

<table>
<thead>
<tr>
<th>Date</th>
<th>Contract Number</th>
<th>Amount</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 January 2003</td>
<td>NBCHCO10003a</td>
<td>$2,116,671b</td>
<td>Scientist</td>
</tr>
<tr>
<td>3 March 2004</td>
<td>N00014-D4-C-0237 AAc</td>
<td>$2,348,732</td>
<td>Scientist</td>
</tr>
<tr>
<td>18 May 2004</td>
<td>N00014-D4-C-0237 Abc</td>
<td>$1,882,065</td>
<td>Chief Scientist</td>
</tr>
<tr>
<td>3 July 2006</td>
<td>N00014-D4-C-0237 Ac</td>
<td>$1,330,646</td>
<td>Chief Scientist</td>
</tr>
<tr>
<td>8 January 2006</td>
<td>N00014-D4-C-0237 Abc</td>
<td>$949,354</td>
<td>Chief Scientist</td>
</tr>
<tr>
<td>12 June 2007</td>
<td>N00014-D4-C-0237 Adc</td>
<td>$70,000</td>
<td>Chief Scientist</td>
</tr>
<tr>
<td>6 June 2007</td>
<td>N00014-D4-C-0237 Adc</td>
<td>$1,309,053</td>
<td>Chief Scientist</td>
</tr>
</tbody>
</table>

a. DARPA
b. $5,337,537 in prior funding
c. Office of Naval Research

MADHU PANDEY, PhD
2168 Greenbriar Blvd., Clearwater, FL, 33763
Phone: (727) 241-8593 (Cell); (727) 733-3623 (Home)
E-Mail: mp.fl@yahoo.com

SUMMARY
- Over 25 Years’ Experience teaching Chemistry in colleges in USA and INDIA
- Over 10 Years’ Experience teaching Chemistry Labs with supervisory experience
- Over 4 Years’ Experience working in Research Lab at Tata Iron and Steel Company, Jamshedpur, India.
- Over 2 Years’ Experience working in Research Lab of Geo Pharma / Belcher Pharmaceutical, Largo, FL

EDUCATION
- MST (MS in Teaching) in Chemistry from FAU (Florida Atlantic University), in 2003.
- PhD in Inorganic Chemistry from Ranchi University, INDIA in 1998.
- MS in Chemistry from Ranchi University, INDIA, in 1988
- BS in Chemistry & Biology from Ranchi University, INDIA, in 1986

TRAINING, CERTIFICATIONS, PROFESSIONAL ORGANIZATIONS
- Completed training for Web Development using MS FrontPage, Acrobat Professional, BlackBoard, WEBCT, ANGEL (Pathway to eLearning), CANVAS.
- Completed “Excellence in Academic Instruction” (online course developed by SPC).
- American Chemical Society, NGO

WORK EXPERIENCE
University of South Florida St. Petersburg,
08/2013 – present Chemistry Instructor
Teaching assignments: General Chemistry I and II lecture classes, Organic Chemistry I and II lecture classes, Analytical Chemistry Lecture and Lab Classes, Supervising Organic Chemistry Labs and Analytical Chemistry labs.
University of South Florida St. Petersburg,  
01/2009 – 05/2013 Visiting Instructor  
Teaching assignments: General Chemistry I and II lecture classes, Organic Chemistry Lab and Lecture Classes, Supervising General Chemistry Labs and Organic Chemistry Labs, Lab Instructor for Organic Chemistry Labs

St. Petersburg Community College,  
(e-Campus, Seminole Campus, 05/2004 – 05/2011 Clearwater Campus), FL  
Adjunct Chemistry Instructor  
Teaching assignments: CHM 1025 lecture and lab, General Chemistry, Introductory Chemistry Lab, (CHM1025L) and Blended Introductory Chemistry, On-line CHM 1025 lecture and lab, Organic I and Organic II Lab,

St. Petersburg Collegiate High School, St. Petersburg, FL  
07/2006 – 06/2009 Chemistry Instructor  
Teaching assignments: Chemistry Honors classes and Lab, Introductory Chemistry (CHM1025 and CHM1025L). Advisor to National Honor Society and Engineering Club.

Geo Pharmaceutical Inc., Largo, FL  
04/2004 – 06/2006 Chemist  
Responsibilities: Drug chemical analysis on finished products and raw materials using wet chemistry, UV- VIS, HPLC, dissolution apparatus, etc. Wrote SOPs about GMP regulations, Writing Investigations, Method Development, Validation of Protocols and Stability Profiles.

Envirodyne Inc, Boca Raton, FL  
Responsibilities: Analysis of Water and Soil samples by GC and HPLC. EPA 8015.

Florida Atlantic University, FL  
08/2001 – 05/2003  
Position: Graduate Teaching Assistant - General Chemistry Classes for undergraduates. Assisted in Lab Classes for undergraduate students. Involved in running HPLC, IR, UV-Visible, GC, TLC, Rota-Vap, Silica Column, Isolation of Compound.

MAPIE, Ft. Lauderdale, FL  
06/2002 – 08/2002  
Worked as Quality Control Chemist for Cement, Grout, and Adhesive.

Graduate School & College for Women, INDIA  
02/1989 – 04/2000  
Worked as Lecturer for Undergraduate and Graduation.  
Responsible for teaching General Chemistry, Organic Chemistry, Inorganic Chemistry. Involved in Demonstration and maintenance of Lab Equipment and Lab Instruments.

City-Soft Tutoring Center, India  
02/1992 - 04/1999  
Part-time  
Tutored Pre-med and Pre- Engineering students in all levels of Chemistry.

PEER-REVIEWED PUBLICATIONS

Extraction-spectrophotometric determination of nickel as Ni-(PAR)2-(CTAB)2complex in polymetallic sea-bed nodules and steels  
S.N.,Bhadani1, Madhu Tewari1, Archana Agrawal2, K.Chandra Sekhar2  
1Department of Chemistry, Ranchi University, Ranchi, India  
2Analytical Chemistry Division, National Metallurgical Laboratory, Jamshedpur 831007, Bihar State, India
Spectrophotometric Determination of Fe(III) with Tiron in the presence of Cationic surfactant and its Application for the Determination of Iron in Al-Alloys and Cu-Based Alloys
S.N., Bhadani¹, Madhu Tewari¹, Archana Agrawal², K.Chandra Sekhar²
¹Department of Chemistry, Ranchi University, Ranchi, India
²Analytical Chemistry Division, National Metallurgical Laboratory, Jamshedpur 831007, Bihar State, India

Extractive-Photometric Determination of Cobalt (II) in Steel using 4-(2-Pyridylazo)resorcinol and Xylometazoline Hydrochloride
S.N., Bhadani¹, Madhu Tewari¹, Archana Agrawal², K.Chandra Sekhar²
¹Department of Chemistry, Ranchi University, Ranchi, India
²Analytical Chemistry Division, National Metallurgical Laboratory, Jamshedpur 831007, Bihar State, India

(Please note: Madhu Tewari is the maiden name of Madhu Pandey)

AWARDS
1. Received Chancellor’s Awards for Teaching 2011

2. Won the 1st best poster award for “Characterization of Chlorophyll in Invasive Plant Species in West Central Florida for use in Hybrid Photosynthetic Electricity Production”, Florida Academy of Science

3. Service Award for 2014-2015 from Environmental Science, Policy and Geography Department.

4. Received USF World Faculty Travel Mobility Grant Award 2015-2016

5. Received VIVA Teaching Award for working with students with Disability.

GRANTS
Received USF World Faculty Travel Grant 2015-2016.

Received CSPACE grant approximately $ 4700 for undergraduate research. Received small portion of NSF grant money with USF TAMPA for Biodiesel from Waste Oil project (main PI, Dr. Sunol from Tampa College of engineering).

Conference and Presentation:
1. Presented Lecture Seminar Series on Traditional Classroom vs Online Learning System” at Tathagat BEd College, Dhanbad, August 2014

2. Presented “Production of Energy from Waste” at College of Mechanical Engineering, ISM Dhanbad, August 2014

3. Participated in Nano Technology Seminar at USF Tampa, 2012

4. Participated in North America Pesticide Residue Conference 2015

5. Participated in Piezoelectric workshop at Benette University 2018

INVOLVED IN FOLLOWING RESEARCH PROJECTS

Continuous Production of Biodiesel from Waste Oil using Supercritical Alcohol Zachary Cerniga, Eilis McGranahan, Dr. Aydin Sunol, Dr. Madhu Pandey, Dr. George Philippidis, Department of Chemical and Biomedical Engineering University of South Florida, Tampa, University of South Florida, Saint Petersburg

Biodiesel Shelf Life: Orange Peels Not Effective in Removing Metal Contamination Doug Borgman,
Dr. Madhu Pandey, Aaron Burnham, University of South Florida, Saint Petersburg

**Characterization of Chlorophyll in Invasive Plant Species in West Central Florida for use in Hybrid Photosynthetic Electricity Production**
Sharon Warner, Dr. Madhu Pandey, University of South Florida, Saint Petersburg

**To develop MEMS based acoustic absorber for harvesting of Acoustic Energy**
Dr. Vinayak Ranjan (Indian Scholl of Mines, ISM, Dhanbad, India), Dr. Madhu Pandey (University of South Florida, Saint Petersburg)

**Enhanced Photocatalytic Inactivation of E. coli in Water Using Nanocomposite Graphene-Titanium dioxide**
Hazel Anderson, Dr. Madhu Pandey, University of South Florida, Saint Petersburg

**Enhanced Photocatalytic Inactivation of E. coli in Water Using Nanocomposite MOS2- Titanium dioxide**
Timothy McColgan, Dr. Madhu Pandey, University of South Florida, Saint Petersburg

**Service Activity**
ESPG Undergraduate Coordinator, June 2015-November 2015.
ESPG Undergraduate Co-coordinator, November 2015 to Summer 2016. Club Advisor of Environmental Science and Sustainability Club.

Club Advisor of South Asian Association Club.

Member of faculty search committee (chemistry), summer 2014, spring 2018. Member of USFSP Scholarship Committee.

Member of St. Petersburg Science Festival Committee Summer 2013 to present.

Judging Member – Florida Science and Engineering Fair 2014 to present.

**Graduate Students Supervised (thesis track)**


**Course Development**

Developed Study Abroad India program and established collaboration with Indian School of Mines Dhanbad India.

Developed Study Abroad India program with Bennett University India. EDUCATION

**PHILOSOPHY**

*Sa’ Vidya’ Ya’ Vimuktaye* (KNOWLEDGE THAT LIBERATES) - Sanskrit hymns from ancient Indian texts (Education is for all round liberation presents a renewed attempt to remove the imbalance between intuition and science; between formal and non-formal education; between globalization and localization.)
I want my students to enjoy chemistry and see through the practical applications of chemistry in day to day life. I encourage critical thinking and help them come up with innovative ideas.

I strongly believe in classroom democracy and promote it by actively engaging the students in an honest and open dialogue. I try to promote interactivity amongst students by using group discussion, assignments, quizzes, think pair and share, bonding, and other learner-centered activities. By using these methods students will capture the essence of the lesson and will engage into the collaborative classroom activity to retain the concepts.

My teaching methods include new technologies related to their subjects such as Internet, power point, educational shows, eBooks, Black-board, CANVAS etc. I keep myself up-to-date with better teaching skills and strategic quality planning, flexible scheduling, classroom management, through evaluation and suggestions.

XueFeng (Bob) Wang
Environmental Science, Policy and Geography
University of South Florida St. Petersburg
St. Petersburg, FL 33701

Phone: (727) 873-4869
Email: wangx@usfsp.edu

Education
1998 Ph.D. Chemistry, Weizmann Institute of Science, Rehovot, Israel
1988 M.S. Soil Science, Institute of Soil Science, Academia Sinica, Nanjing, China
1985 B.Eng. Agricultural Engineering, Shenyang Agricultural University, Shenyang, China

Employment
08/2018
Instructor of Chemistry, University of South Florida St. Petersburg, St. Petersburg, Florida

2003 – 07/2018
Lab Manager / Adjunct Chemistry Instructor, University of South Florida St. Petersburg, St. Petersburg, Florida
• Teach chemistry courses and labs (CHM 2045, CHM 2046, CHM 2045L and CHM 2046L)
• Coordinator for Teaching and Research labs (Chemistry, Biology, Geology, etc.)
• Supervise TAs in the ESPG and Biology Labs and CAS Teaching labs
• Maintain lab instruments and materials, such as GCMS, HPLC, Gamma Detector, Nutrient Analyzer, Water Quality Checker
• Design and maintain departmental website, conference websites, e-commerce
• Maintain the computers and servers in the geospatial lab
• Write scientific proposals for applications of exterior funding
• Order supplies and equipment for research labs and teaching labs
• P-card reconciler and verifier, using GEMS and FAST
• Proficient in use of Banner, Blackboard, and Canvas

2001-2002
Senior Software Developer, GotMarketing Inc., Ottawa, Ontario
• Using programming codes in Java, JSP, Servlet, HTML, JavaBean, Applet, , Oracle, MS SQL, PHP3
• Designing Java API in NAS, iPlanet, VisualCafe, Solaris, NT
• Responsible for online transactions design and implementation

2000
Research Associate, Canada Center for Remote Sensing, Ottawa, Ontario
• Developing partial-differential mathematical models for soil surface temperature simulation across Canada.
• Simulating energy balance via satellite remote sensing data across Canada.

1997-1999
Post-doc Fellow, Dept. of Earth Science, University of Ottawa, Ontario
• Temporal and spatial variations in the hydrological and carbon cycle in aquatic ecosystems, by sampling and analyzing water samples in Ottawa River, Meech Lake and a swamp Creek in the Ottawa area.

Selected Publications:

Courses taught:
- General Chemistry I, CHM 2045
- General Chemistry II, CHM 2046
- General Chemistry I Lab, CHM 2045L
- General Chemistry II Lab, CHM 2046L
- Chemistry for Liberal Studies, CHM 2020
- Introduction to Environmental Science, EVR 2001
- Intro to Environmental Science Lab, EVR 2001L

Synergistic Activities:
- Panelist: National Science Foundation (NSF)/GEO Division, May 2009
- Safety officer: University Laboratory and Field Safety Committee, since 2006
- Judge: Pinellas County History Fair, 2009 – 2012
- Serving as a contact person for GIS Day event at USF St. Petersburg since 2005

Honors:
- Employee of the Month, University of South Florida St. Petersburg, September 2018
- Employee of the Month, University of South Florida St. Petersburg, June 2010
- Outstanding Employee of the Year, University of South Florida (system wide), 2009
- Outstanding Employee of the Year, University of South Florida St. Petersburg, 2009
- Outstanding Employee of the Year, University of South Florida St. Petersburg, 2007
Varol O. Kayhan, Ph.D.
Associate Professor - Information Systems & Decision Sciences
Office: LPH 428
Phone: 727-873-4006
Fax: 727-873-4571
Email: vkayhan@usfsp.edu

Academic Background
Ph.D. University of South Florida, Business Administration - Information Systems, 2010
M.S. University of South Florida, Management Information Systems, 2008

Professional Certifications
Microsoft Professional Program Certification for Artificial Intelligence, ba5289f3-b75c-4573-8858-d5228fbf0963, 2018 (Present)
AWS Certification (Solutions Architect - Associate), 13GVRWR2CNF11Y9J, 2017 (2017-2019)

Professional Memberships

Work Experience Academic
Associate Professor, Kate Tiedemann College of Business, USF St. Petersburg (August, 2016 - Present), St. Petersburg, Florida.
Assistant Professor, Kate Tiedemann College of Business, USF St. Petersburg (August, 2010 - July, 2016), St. Petersburg, Florida.
Graduate Assistant, University of South Florida, College of Business (2006 - 2010), Tampa, Florida.

Non-Academic

Teaching Courses Taught
Courses from the Teaching Schedule: Business Intelligence (ISM6930), Database Administration (ISM6217), Database Design/Administration (ISM4212), Information Systems In Organizations (ISM3011), ST: Data Analysis (ISM6930), ST: Fund of Data Mngmt&Analysis (ISM6930-FDMA), ST: Predictive Analytics (ISM6930)

Intellectual Contributions Intellectual Contributions

Grid

<table>
<thead>
<tr>
<th>Category</th>
<th>BDS</th>
<th>AIS</th>
<th>TLS</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles in Referee Journals</td>
<td>4</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Presentations of Referee Papers</td>
<td></td>
<td>3</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Articles in Referee Journals

Basic or Discovery Scholarship

signals? A protocol for validating wearable sensors. Behavior Research Methods, 50 (1), 57-83. [February]


Presentations of Refereed Papers

Basic or Discovery Scholarship


Books, Monographs, Compilations, Manuals


Grants & Gifts

Research

2016-2017: Kayhan, V. O. Internal Research Grant, USF St Petersburg, Principal Investigator.

2015-2016: Kayhan, V. O. Internal Research Grant, USF St. Petersburg, Co-Principal Investigator.

2014-2015: Kayhan, V. O. Internal Research Grant, USF St. Petersburg, Principal Investigator.

Honors and Awards

2017-2018: Quality Matters (QM) Re-Certification of ISM 3011 online course, USF St Petersburg.


2015-2016: Bank of America Endowed Professor, Kate Tiedemann College of Business, USF St. Petersburg. 2012-2013: Quality Matters Certification for ISM 3011 online course, USF St. Petersburg.


Service

Association for Development of the Information Society - Best Paper Award.

Service to the Institution

**College Assignments**

Chair:

2016-2017 – 2017-2018: COB Faculty Standards Task Force (Co-Chair)
2016-2017 – 2017-2018: COB Annual Review and Assessment Committee (Co-Chair)

Member:

2017-2018: COB Undergraduate Curriculum and Assessment Committee
2015-2016: COB Annual Review and Assessment Committee
2014-2015: COB Faculty Development Committee
2014-2015: College Web Design Committee

Service to the Profession

**Chair: Conference / Track / Program**


**Reviewer - Article / Manuscript**


**Reviewer: Ad Hoc Reviewer for a Journal**

2015-2016: Information & Management (National).
Issue: Faculty Nominations for Tenure

Proposed action: Approval of Nominees for Tenure, USF Tampa

Executive Summary:

Attached is the USF Tampa’s list of faculty nominees for tenure for review and approval by the USF Board of Trustees. President Judy Genshaft has certified that the nominations for tenure have met the requirements and conditions contained in USF Regulations, Policies, and Procedures. She is satisfied that the nominees will make a significant professional contribution to USF and the academic community in general. If approved, tenure will be awarded effective August 7, 2019.

Financial Impact:

USF Tampa faculty granted tenure and promotion will receive a 9% salary increase and $5000 to Associate Professor and $7000 to Professor in special achievement. Faculty granted tenure only will not receive a monetary award.

Strategic Goal(s) Item Supports:

USF Strategic Plan 2013-2018, Goal II

Workgroup Review Date:

Academic and Campus Environment Work Group – May 14, 2019

Supporting Documentation Online (please circle): Yes    No

- Memorandum to Jordan B. Zimmerman, Chair, USF Board of Trustees
- Tenure Nominations as a Condition of Employment
- Faculty Profiles

USF System or Institution specific: USF Tampa

Prepared by: Dwayne Smith, Senior Vice Provost & Dean, Graduate Studies, 813-974-2267
MEMORANDUM

DATE:       June 6, 2019

TO:         Jordan B. Zimmerman, Chair

FROM:       Judy Genshaft, President

SUBJECT:    Faculty Nominations for Tenure, USF Tampa

I am requesting approval by the USF Board of Trustees of the enclosed Faculty Nominations for Tenure at USF Tampa. In nominating these faculty members for tenure, I certify that the requirements and conditions contained in USF Regulations, Policies, and Procedures for the granting of tenure have been met. I am satisfied that the nominees will make a significant professional contribution to USF Tampa and the academic community.

Enclosures
<table>
<thead>
<tr>
<th>College</th>
<th>First Name</th>
<th>Last Name</th>
<th>Rank Upon Tenure</th>
<th>Department/ School</th>
<th>Degree of Effort*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences</td>
<td>Padmaja</td>
<td>Ayyagarl</td>
<td>Associate Professor</td>
<td>Economics</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Gil</td>
<td>Ben-Herut</td>
<td>Associate Professor</td>
<td>Religious Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Chad</td>
<td>Dube</td>
<td>Associate Professor</td>
<td>Psychology</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Alon</td>
<td>Friedman</td>
<td>Associate Professor</td>
<td>School of Information</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Ioannis</td>
<td>Gels</td>
<td>Associate Professor</td>
<td>Chemistry</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Jason</td>
<td>Gulley</td>
<td>Associate Professor</td>
<td>School of Geosciences</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Robert</td>
<td>Hoy</td>
<td>Associate Professor</td>
<td>Physics</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Amanda</td>
<td>Huensch</td>
<td>Associate Professor</td>
<td>World Languages</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Mile</td>
<td>Krajcevski</td>
<td>Associate Professor</td>
<td>Mathematics &amp; Statistics</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Marleah</td>
<td>Kruzel</td>
<td>Associate Professor</td>
<td>Communication</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Quynh Nhu</td>
<td>Le</td>
<td>Associate Professor</td>
<td>English</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Xiaopeng</td>
<td>Li</td>
<td>Associate Professor</td>
<td>Chemistry</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Evangeline</td>
<td>Linkous</td>
<td>Associate Professor</td>
<td>School of Public Affairs</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Stephen</td>
<td>Neely</td>
<td>Associate Professor</td>
<td>School of Public Affairs</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Jianjun</td>
<td>Pan</td>
<td>Associate Professor</td>
<td>Physics</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Luanna</td>
<td>Prevost</td>
<td>Associate Professor</td>
<td>Integrative Biology</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Jeffrey</td>
<td>Raker</td>
<td>Associate Professor</td>
<td>Chemistry</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>David</td>
<td>Rubin</td>
<td>Associate Professor</td>
<td>Women’s and Gender Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Mor</td>
<td>Segev</td>
<td>Associate Professor</td>
<td>Philosophy</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Davide</td>
<td>Tanasi</td>
<td>Associate Professor</td>
<td>History</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Kimberly</td>
<td>Walker</td>
<td>Associate Professor</td>
<td>Zimmerman School of Advertising &amp; Mass Communications</td>
<td>1.0</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Jongseok</td>
<td>Woo</td>
<td>Associate Professor</td>
<td>School of Interdisciplinary Global Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>Behavioral &amp; Community</td>
<td>Bryanna</td>
<td>Fox</td>
<td>Associate Professor</td>
<td>Criminology</td>
<td>1.0</td>
</tr>
<tr>
<td>Behavioral &amp; Community</td>
<td>Khary</td>
<td>Rigg</td>
<td>Associate Professor</td>
<td>Mental Health Law &amp; Policy</td>
<td>1.0</td>
</tr>
<tr>
<td>Education</td>
<td>Amber</td>
<td>Dumford</td>
<td>Associate Professor</td>
<td>Leadership, Counseling, Adult, Career &amp; Higher Education (LCACHE)</td>
<td>1.0</td>
</tr>
<tr>
<td>Education</td>
<td>Sanghoon</td>
<td>Park</td>
<td>Associate Professor</td>
<td>Education &amp; Psychological Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>College</td>
<td>First Name</td>
<td>Last Name</td>
<td>Rank Upon Tenure</td>
<td>Department/ School</td>
<td>Degree of Effort*</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------</td>
<td>--------------------</td>
<td>------------------------</td>
<td>-------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Education</td>
<td>Sarah</td>
<td>Vanniënge</td>
<td>Associate Professor</td>
<td>Teaching &amp; Learning (T&amp;L)</td>
<td>1.0</td>
</tr>
<tr>
<td>Education</td>
<td>Nathaniel</td>
<td>Von der Embse</td>
<td>Associate Professor</td>
<td>Education &amp; Psychological Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>Engineering</td>
<td>Ismail</td>
<td>Uysal</td>
<td>Associate Professor</td>
<td>Electrical Engineering</td>
<td>1.0</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Xingman</td>
<td>Sun</td>
<td>Associate Professor</td>
<td>Molecular Medicine</td>
<td>1.0</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Vladimir</td>
<td>Uversky</td>
<td>Professor</td>
<td>Molecular Medicine</td>
<td>1.0</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Hana</td>
<td>Totary-Jain</td>
<td>Associate Professor</td>
<td>Molecular Pharmacology &amp; Physiology</td>
<td>1.0</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Diana</td>
<td>Hechavarria</td>
<td>Associate Professor</td>
<td>Marketing</td>
<td>1.0</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Jung-Chul</td>
<td>Park</td>
<td>Associate Professor</td>
<td>Finance</td>
<td>1.0</td>
</tr>
<tr>
<td>Nursing</td>
<td>Harleah</td>
<td>Buck</td>
<td>Associate Professor</td>
<td>N/A</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>Kamila</td>
<td>Dell</td>
<td>Associate Professor</td>
<td>Pharmacotherapeutics &amp; Clinical Research</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>Aimon</td>
<td>Miranda</td>
<td>Associate Professor</td>
<td>Pharmacotherapeutics &amp; Clinical Research</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>Erini</td>
<td>Serag</td>
<td>Associate Professor</td>
<td>Pharmacotherapeutics &amp; Clinical Research</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>Sheeba</td>
<td>Varghese Gupta</td>
<td>Associate Professor</td>
<td>Department of Pharmaceutical Sciences</td>
<td>1.0</td>
</tr>
<tr>
<td>Public Health</td>
<td>Dinorah</td>
<td>Martinez Tyson</td>
<td>Associate Professor</td>
<td>N/A</td>
<td>1.0</td>
</tr>
<tr>
<td>Public Health</td>
<td>Cheryl</td>
<td>Vamos</td>
<td>Associate Professor</td>
<td>N/A</td>
<td>1.0</td>
</tr>
<tr>
<td>Public Health</td>
<td>Janice</td>
<td>Zgibor</td>
<td>Professor</td>
<td>N/A</td>
<td>1.0</td>
</tr>
<tr>
<td>The Arts</td>
<td>Ezra</td>
<td>Johnson</td>
<td>Associate Professor</td>
<td>School of Art &amp; Art History</td>
<td>1.0</td>
</tr>
<tr>
<td>The Arts</td>
<td>Joo Yeon</td>
<td>Woo</td>
<td>Associate Professor</td>
<td>School of Art &amp; Art History</td>
<td>1.0</td>
</tr>
</tbody>
</table>

*If Less than 1.0 FTE
### University of South Florida

**FACULTY NOMINATIONS FOR TENURE**

**2018-19 effective 2019-20**

<table>
<thead>
<tr>
<th>Sex, Race/Ethnicity</th>
<th>Applied</th>
<th>Deferred</th>
<th>Withdrawn</th>
<th>Denied</th>
<th>Nominated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Black, Not Hispanic</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White, not Hispanic</td>
<td>18</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Male</strong></td>
<td>25</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>22</td>
</tr>
<tr>
<td><strong>FEMALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Black, not Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>White, not Hispanic</td>
<td>8</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Female</strong></td>
<td>12</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>11</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>37</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>33</td>
</tr>
</tbody>
</table>

*Eligible: Data is only from departments that have applicants applying during the current process.

- **APPLIED** = Faculty whose names have been submitted for tenure review.
- **DEFERRED** = Faculty by whom tenure was deferred during the review process.
- **WITHDRAWN** = Faculty who withdrew from tenure consideration after applying for tenure.
- **DENIED** = Faculty for whom tenure was denied during the review process.
- **NOMINATED** = Faculty for whom tenure is being recommended by the University.

For out-of-unit faculty, pursuant to Rule 6C-5.344(1)(v), the decision to recommend an employee for tenure shall be made no later than the twelfth year of continuous full-time service or equivalent part-time service in a tenure-earning position.

For in-unit faculty, pursuant to Article 15 of the BOR-UFF Agreement, an employee shall normally be considered for tenure during the sixth year of continuous service in a tenure-earning position including any prior service credit granted at the time of initial employment. An employee’s written request for early tenure consideration is subject to the University’s written agreement.

**Notes:**
- The numbers provided should not include tenure nominations as a condition of employment.
- Once having applied for tenure review, faculty may generally only be withdrawn from, denied, or nominated for tenure.
- The sum of those withdrawn, denied, or nominated for tenure should equal the number of those who applied for tenure review. (Please explain any discrepancies.)

Tenure Attachment B rev.
### FACULTY NOMINATIONS FOR TENURE

#### 2018-19 effective 2019-20

<table>
<thead>
<tr>
<th>Sex, Race/Ethnicity</th>
<th>Applied</th>
<th>Deferred</th>
<th>Withdrawn</th>
<th>Denied</th>
<th>Nominated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Black, Not Hispanic</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White, not Hispanic</td>
<td>19</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Other</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Male</strong></td>
<td>27</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>24</td>
</tr>
<tr>
<td><strong>FEMALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Black, not Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>White, not Hispanic</td>
<td>12</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Female</strong></td>
<td>21</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>48</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>44</td>
</tr>
</tbody>
</table>

*Eligible: Data is only from departments that have applicants applying during the current process.*

**APPLIED**
Faculty whose names have been submitted for tenure review.

**DEFERRED**
Faculty for whom tenure was deferred during the review process.

**WITHDRAWN**
Faculty who withdrew from tenure consideration after applying for review.

**DENIED**
Faculty for whom tenure was denied during the review process.

**NOMINATED**
Faculty for whom tenure is being recommended by the University.

For out-of-state faculty, pursuant to Rule 5C-34(1)(e), the decision to recommend an employee for tenure shall be made no later than the sixth year of continuous full-time service or equivalent part-time service in a tenure-earning position.

For in-unit faculty, pursuant to Article 15 of the BCR-UFF Agreement, an employee shall normally be considered for tenure during the sixth year of continuous service in a tenure-earning position including any prior service credit granted at the time of initial employment. An employee's written request for early tenure consideration is subject to the successor written agreement.

**Notes:** The numbers provided should not include tenure nominations as a condition of employment.

- Tenure applications, denied, or nominated for tenure should equal the number of those who applied for tenure review. (Please explain any discrepancies.)

**Tenure Agreement & rev.**
Agenda Item: FL 109

USF Board of Trustees
June 6, 2019

Issue: Faculty Nominations for Tenure as a Condition of Employment

Proposed action: Approval of Nominees for Tenure as a Condition of Employment, USF Tampa

Executive Summary:

Administrators such as the President, Provost, Deans, Chairs, and senior faculty who are recruited to USF Tampa are normally awarded tenure as a condition of employment. These highly qualified individuals usually have earned tenure at their previous institutions, which makes them attractive candidates to USF. In order to attract them, USF must provide a package that is competitive with other nationally and internationally ranked institutions. Tenure upon appointment for qualified candidates, among other things, is a term and condition of the employment package that makes USF an institution of choice.

Financial Impact:

Strategic Goal(s) Item Supports:
USF Strategic Plan 2013-2018, Goal II

Workgroup Review Date:
Academic and Campus Environment Work Group – May 14, 2019

Supporting Documentation Online (please circle): Yes No
• Memorandum to Jordan B. Zimmerman, Chair, USF Board of Trustees
• Tenure Nominations as a Condition of Employment
• Faculty Profiles

USF System or Institution specific: USF Tampa

Prepared by: Dwayne Smith, Senior Vice Provost & Dean, Graduate Studies, 813-974-2267
MEMORANDUM

DATE:                June 6, 2019
TO:                  Jordan B. Zimmerman, Chair
FROM:                Judy Genshaft, President
SUBJECT:             Faculty Nominations for Tenure as a Condition of Employment, USF Tampa

I am requesting approval by the USF Board of Trustees of the enclosed Tenure as a Condition of Employment Nominations at USF Tampa. In nominating these faculty members for tenure, I certify that the requirements and conditions contained in USF Regulations, Policies, and Procedures for the granting of tenure have been met. I am satisfied that the nominee will make a significant professional contribution to USF Tampa and the academic community.

Enclosures
### Faculty Nominations for Tenure as a Condition of Employment, USF-Tampa

#### USF Board of Trustees Meeting – June 6, 2019

<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank</th>
<th>Department/School</th>
<th>Degree of Effort</th>
<th>Previous Institution</th>
<th>Tenure at Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Science</td>
<td>Alastair Graham, PhD</td>
<td>Associate Professor</td>
<td>Geography</td>
<td>1.0</td>
<td>Exeter University</td>
<td>Yes</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Steven C. Currall, PhD</td>
<td>President &amp; Professor</td>
<td>Information Systems and Decision Sciences</td>
<td>1.0</td>
<td>Southern Methodist University</td>
<td>Yes</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Douglas Hughes, PhD</td>
<td>Chair &amp; Professor</td>
<td>Marketing Department</td>
<td>1.0</td>
<td>Michigan State University</td>
<td>Yes</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Dejun (Tony) Kong, PhD</td>
<td>Associate Professor</td>
<td>Information Systems &amp; Decision Sciences</td>
<td>1.0</td>
<td>University of Houston</td>
<td>Yes</td>
</tr>
<tr>
<td>Muma College of Business</td>
<td>Mark H. Taylor, PhD</td>
<td>Director &amp; Professor</td>
<td>Lynn Pippenger School of Accountancy</td>
<td>1.0</td>
<td>Case Western Reserve University</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Liwang Cui, PhD</td>
<td>Professor</td>
<td>Internal Medicine</td>
<td>1.0</td>
<td>The Pennsylvania State University</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Ji Li, PhD</td>
<td>Professor</td>
<td>Surgery</td>
<td>1.0, 0.5 TE</td>
<td>The University of Mississippi Medical Center</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>David Lominos, PhD</td>
<td>Professor</td>
<td>Surgery</td>
<td>1.0, 0.5 TE</td>
<td>University of Louisville</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Gopal Thinakaran, PhD</td>
<td>Professor</td>
<td>Molecular Medicine</td>
<td>1.0, 0.7 TE</td>
<td>The University of Chicago</td>
<td>Yes</td>
</tr>
<tr>
<td>Morsani College of Medicine</td>
<td>Lianchun Wang, MD</td>
<td>Professor</td>
<td>Molecular Pharmacology &amp; Physiology</td>
<td>1.0, 0.7 TE</td>
<td>University of Georgia</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*If less than 1.0 FTE
Alistair Graham, PhD

Dr. Alistair Graham will join the faculty at the College of Marine Science (CMS) on August 7, 2019 as Associate Professor. Dr. Graham received his Ph.D. in 2007 in Marine Geophysics from Imperial College (UK) working jointly with the British Geological Survey. Most recently, he has served as a Senior Lecturer (equivalent of a tenured Associate Professor) at the University of Exeter in the Geography Department. He is an established scholar with 53 peer-reviewed scientific publications (including 16 first author and 9 student-led), an h-index of 24, and 1,764 citations. Since 2012, Dr. Graham has obtained £700,000 in UK NERC funding and is presently involved in a three-year $2,000,000 NERC/NSF initiative to characterize ongoing glacial retreat in the Amundsen Sea, Antarctica. Dr. Graham is an internationally-recognized, sea-going, process-based geophysicist and sedimentologist. His recent work utilizes innovative sub-ice geophysical techniques to understand the past and present response of the West Antarctic Ice Sheet in a warming world. This research is essential for improving future sea level rise predictions and urban planning in Florida. Additionally, Dr. Graham identified potential collaborations with CMS researchers working in the Gulf of Mexico. Specifically, he is interested in pursuing funding that would make CMS unique within the context of existing academic research programs in Florida, provide additional support to usage of Florida Institute of Oceanography vessels and the autonomous underwater vehicles operated by the CMS Ocean Technology Group, and create Gulf of Mexico-based learning and research opportunities for USF CMS students. Finally, Dr. Graham is committed to improving diversity in Geosciences and Higher Education. At Exeter University, he served as the departmental Diversity Officer, working with University administration, faculty, and students to improve diversity of Exeter's faculty and student body. The College of Marine Science Promotion and Tenure Committee recommends Dr. Graham for tenure at the rank of Associate Professor. Dr. Jacqueline Dixon, Dean of the College of Marine Science, along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
University of South Florida
Tenure Nominations as a Condition of Employment

Muma College of Business

Steven C. Currall, Ph.D.

Dr. Steven C. Currall is being hired as the President of the University of South Florida at the rank of Professor in the Information Systems and Decision Sciences Department beginning in July 2019. He is currently the Provost and Vice President for Academic Affairs at Southern Methodist University and has previously served as Dean of the Graduate School of Management at the University of California – Davis. He has also held faculty and administrative positions at the University College of London and at Rice University. Dr. Currall earned his Doctor of Philosophy in organizational behavior from Cornell University. He holds a master’s degree in social psychology from the London School of Economics and Political Science, and a bachelor’s degree from Baylor University. Dr. Currall has an extensive research record, having published in several high-quality journals including Organizational Behavior and Human Decision Processes, Organization Science, Journal of International Business Studies, and Personnel Psychology. His works have generated over 4,900 citations (as per Google Scholar), and he has received a number of national and institutional awards for his research efforts. In addition to his published works, Dr. Currall has worked on grant projects totaling over $21 million, 78% of which were from refereed grants such as the National Science Foundation and the National Institutes of Health. The impact of his research has led to Dr. Currall being named as an American Association for the Advancement of Science Fellow and asked to serve as a member of the U.S. Nanotechnology Advisory Group. Dr. Currall has worked with students at all degree levels and taught numerous executive education courses. The faculty of the Information Systems and Decision Sciences Department recommends tenure upon hire at the rank of Professor, a recommendation strongly supported by the Muma College of Business Promotion and Tenure Committee as well as the Dean of the College. This recommendation is strongly supported by Provost Ralph Wilcox and President Judy Genshaft.
Muma College of Business

Douglas Hughes, Ph.D.

Dr. Douglas Hughes is being hired as the Chair of the Marketing Department at the rank of Professor. He is currently Professor and Chair of the Department of Marketing in the Eli Broad College of Business at Michigan State University, which is an AAU member. Prior to going into academia, he held several leadership positions in Fortune 100/500 companies. In 2008, Dr. Hughes earned his Doctor of Philosophy in marketing from the University of Houston, and holds an MBA degree from Michigan State University. Although serving as a department chair for the past three years, Dr. Hughes maintains an active research agenda. He has 14 published articles in refereed journals, seven of which are on the prestigious Financial Times list of 50 influential journals, including Journal of Marketing, Journal of Marketing Research and the Journal of the Academy of Marketing Science. In addition to his excellent research record, Dr. Hughes is a skilled teacher, having taught at all degree levels and serving as a regular guest lecturer at the Vienna University of Economics and Business. His background and experience in industry will allow Dr. Hughes to build on the strong relationships the department has with the Tampa Bay business community. The faculty of the Marketing Department unanimously recommends tenure upon hire at the rank of Professor, a recommendation strongly supported by the Muma College of Business Promotion and Tenure Committee as well as the Dean of the College. This recommendation is strongly supported by Provost Ralph Wilcox and President Judy Genshaft.
University of South Florida  
Tenure Nominations as a Condition of Employment

Muma College of Business

Dejun (Tony) Kong, Ph.D.

Dr. Dejun Kong is being hired at the rank of Associate Professor in the Information Systems and Decision Sciences Department. He is currently a tenured Associate Professor of Management and Leadership at the C. T. Bauer College of Business, University of Houston. In 2012, Dr. Kong earned his PhD in Business Administration (Organizational Behavior) at Washington University, St. Louis, Missouri. In his relatively short time as an academic, Dr. Kong has published or had accepted for publication 35 refereed journal articles. A significant number of the articles have been published in highly ranked journals such as the Academy of Management Journal, the Journal of Applied Psychology, and the Journal of Business Ethics. Dr. Kong has over 500 citations of his published research and an h-index of 14 based on Google Scholar. In addition to his research, Dr. Kong has a strong and diverse teaching background, having taught at all program levels. Most recently, Dr. Kong has been named by Poets&Quants as one of this year's 40 best business school professors under the age of 40 in its annual 40 under 40 best b-school professors. The faculty of the Information Systems and Decision Sciences Department recommends tenure upon hire at the rank of Associate Professor, a recommendation strongly supported by the Muma College of Business Promotion and Tenure Committee as well as the Dean of the College. This recommendation is strongly supported by Provost Ralph Wilcox and President Judy Genshaft.
Muma College of Business

Mark H. Taylor, Ph.D.

Dr. Mark H. Taylor is being hired as Director of the Lynn Pippenger School of Accountancy at the rank of Professor. He is currently the Andrew D. Braden Professor of Accounting and Auditing and for the past six years has served as Chair of the Department of Accountancy at the Weatherhead School of Management, Case Western Reserve University, an AAU member. In 1994 Dr. Taylor earned his Doctor of Philosophy with an emphasis in accounting from the University of Arizona. He holds a Master of Accountancy degree from Brigham Young University. Dr. Taylor has over 30 published/forthcoming articles in refereed journals, many of which are in high quality accounting journals. The impact of his research publication record is reflected in Dr. Taylor’s appointments with businesses and professional organizations such as the Securities and Exchange Commission, the Auditing Standards Board of the American Institute of Certified Public Accountants, and as an independent trustee and audit committee chair of the Northern Lights Fund Trust. The faculty of the Lynn Pippenger School of Accountancy recommends tenure upon hire at the rank of Professor, a recommendation strongly supported by the Muma College of Business Promotion and Tenure Committee as well as the Dean of the College. This recommendation is strongly supported by Provost Ralph Wilcox and President Judy Genshaft.
Liwang Cui, PhD

Dr. Liwang Cui joined the faculty at USF Health, the Morsani College of Medicine (MCOM), on October 1, 2018 as Professor with the Department of Internal Medicine. His primary responsibility is research, with a second area of focus in teaching. Dr. Cui is an internationally recognized scientist and researcher and teacher who holds a high profile in his area of research. He comes to USF from Pennsylvania State University where he was Professor in the Department of Entomology. Dr. Cui was funded by multiple NIH grants and served as PI for a Fogarty International Center award, an U19 Research Center award that runs through 2024, two active R01 awards as well as a R21 grant. Dr. Cui’s research focuses on the molecular biology of malaria parasites and the transmission of these parasites by the mosquito vector. He has published 215 peer-reviewed articles, and has served on multiple NIH, Dept. of Defense, and USDA grant review panels. Dr. Cui’s graduate training includes two doctoral degrees, a PhD in Biology from Moldova Agricultural University in the former USSR in 1991 and a PhD in Molecular Virology from the University of Kentucky in 1996. He followed with his post-doctoral training at Walter Reed Army Institute of Research and was appointed as Research Asst. Professor in the Dept. of Preventive Medicine, Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences. Dr. Cui was appointed Assistant Professor in the Dept. of Entomology at Pennsylvania State University in 2000, was promoted to Associate Professor with tenure in 2006 and Professor in 2009. In addition to his numerous research accomplishments, Dr. Cui has positively influenced the education of graduate and postgraduate trainees. Dr. Cui is mentoring 18 postdoctoral and visiting scholars, and 15 graduate students. Dr. Cui exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Internal Medicine recommend Dr. Cui for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
Dr. Ji Li will join the faculty at USF Health, the Morsani College of Medicine (MCOM), on July 1, 2019 as Professor with the Department of Surgery. His primary responsibility is research, with secondary and tertiary areas of focus of teaching and service. Dr. Li is an internationally recognized scientist and researcher and teacher who holds a high profile in his area of research.

He was recruited from the University of Mississippi Medical Center (UMMC) where he most recently served as Associate Professor with tenure, and Associate Director of the Mississippi Center or Heart Research. Dr. Li earned a PhD in Cell Biology in 1998, and a MS degree in Biophysics in 1992 from Lanzhou University, Lanzhou, Gansu Province, China. He completed a postdoctoral fellowship in 2000 at Sichuan University, China; was a Visiting Fellow with the NIA/NIH from 2000-2002, and completed a second postdoctoral fellowship in Physiology at Yale University in 2003. Dr. Li has secured NIH funding since 2008. He brings to USF $3.4 million in grant funding. He is the Principal Investigator on two NIH R01 grants, and one American Diabetes Association grant. He is Co-PI on another R01 grant, and has several R01/R21 applications pending. Dr. Li’s research focuses on the metabolic parameters associated with myocardial ischemia associated with environmental stress, with particular emphasis on the signal transduction pathways in the regulation of cardiac metabolism. He currently sits on 10 Editorial Boards, and serves on 16 grant review panels. Dr. Li is an active member of many professional societies and recently served as the President for the Chinese American Diabetes Association. He has mentored hundreds of undergraduate and graduate students, supervised 24 Visiting Scholars, sat on 11 Thesis Committees, and three T32 Grant Mentoring Committees.

Dr. Li exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Surgery recommend Dr. Li for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
USF Health, Morsani College of Medicine

David Lominadze, PhD

Dr. David Lominadze will join the faculty at USF Health, the Morsani College of Medicine (MCOM), on August 16, 2019 as Professor with the Department of Surgery. His primary responsibility is research. In addition, he will teach medical students, graduate students, residents and fellows. Dr. Lominadze is internationally recognized for his research on microvascular and neurovascular biology with emphasis on neurodegeneration and brain injury. He comes to USF from the University of Louisville Medical School, Louisville, KY where he served as Professor with tenure in the Department of Physiology. He has secured continuous NIH funding since 2002, and brings to USF more than $4 million in funding through 2023. He currently serves as PI on two R01 awards, as Co-PI on two additional R01 awards, and as a Mentor for a R25 Research Training Project. Dr. Lominadze has published 69 peer-reviewed articles with 42 as first or senior author in prestigious journals, 9 invited book chapters, and 100 scientific abstracts. He received his Master’s degree in Physics and Biophysics from the Tbilisi State University, Tbilisi, Georgia, and his PhD in Biology and Human and Animal Physiology from the I. Beritashvili Institute of Physiology, Tbilisi, Georgia. After serving in multiple leadership positions, such as the Head of the Microrheology Section, Microcirculation Research Center, and the Assistant Head of the Microcirculation Research Center, I. Beritashvili Institute of Physiology, Georgian Academy of Sciences, Dr. Lominadze transitioned to the University of Louisville. In addition to his numerous research accomplishments, Dr. Lominadze has a strong track-record of service, both nationally and internationally. He serves as a frequent peer reviewer, and sits on numerous national and international advisory councils, and steering committees. Dr. Lominadze exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Surgery recommend Dr. Lominadze for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
USF Health, Morsani College of Medicine

Gopal Thinakaran, PhD

Dr. Gopal Thinakaran will join the faculty at USF Health, the Morsani College of Medicine (MCOM), on August 1, 2019 as Professor with the Department of Molecular Medicine. His primary responsibility will be research and administration. In addition to his academic appointment, Dr. Thinakaran will serve as Associate Dean of Neuroscience research at the Neuroscience Institute at USF. Dr. Thinakaran is an internationally recognized Alzheimer’s research scientist. He comes to USF from the University of Chicago where he most recently served as tenured Professor during his 20-year tenure there. Dr. Thinakaran completed his PhD in Molecular Biology and Genetics from the University of Guelph, Guelph Ontario in 1992. He then completed a Postdoctoral Fellowship in the Department of Pathology at Johns Hopkins University School of Medicine. He has been continuously funded for more than 20 years and brings to USF more than $9 million in NIH funding that will continue through 2023. He is regarded as one of the top researchers in the country who studies the molecular pathogenesis of Alzheimer’s disease. Dr. Thinakaran’s superior expertise in developing and applying groundbreaking research methodologies has fostered new ways to study Alzheimer’s disease. He has 136 publications with an h-index of 52 and has been cited 11,560 times. He currently holds three R01 grants and is expecting an additional award for a multi-PI R01 soon. Dr. Thinakaran serves as a permanent member on NIH study sections and other grant funding agencies, as well as serving on the editorial boards of several national and international major neuroscience journals. Dr. Thinakaran exceeds the criteria for Professor with tenure. He has gained the highest respect within the scientific community, is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Molecular Medicine recommend Dr. Thinakaran for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
USF Health, Morsani College of Medicine

Lianchun Wang, MD

Dr. Lianchun Wang joined the faculty at USF Health, the Morsani College of Medicine (MCOM), on November 1, 2018 as Professor with the Department of Molecular Pharmacology and Physiology. His primary responsibility is research, with secondary and tertiary areas of focus of teaching and service. Dr. Wang is an internationally recognized researcher and teacher who holds a high profile in his area of research. He comes to USF from the University of Georgia (UGA) where he was Professor with tenure in the Department of Biochemistry and Molecular Biology. Dr. Wang has sustained continuous grant funding since 2006 and most recently brings to USF nearly $3 million in funding from the National Cancer Institute, with an additional $3.8 million pending from the National Institute on Aging. His research focuses on heparan sulfate proteoglycan in cardiovascular biology, cancer, and Alzheimer’s disease. He has 63 peer reviewed publications. His teaching expertise includes cardiovascular physiology, biochemistry, and cell communication and regulation. Dr. Wang earned a Master’s of Science degree in Physiology and Clinical Biochemistry at the Hunan Medical University, China, in 1993. He earned a MD at Heidelberg University, Germany in 1999, and completed a post-doctoral fellowship in Cellular and Molecular Medicine at the University of California San Diego School of Medicine, La Jolla, CA in 2004. Dr. Wang was appointed as Assistant Professor at UGA in 2006, was promoted to Associate Professor with the award of tenure in 2013, and to Professor in 2018. In addition, Dr. Wang has trained 7 graduate students, 11 postdocs, numerous undergraduate students, and has served on 23 Graduate Advisory Committees. He has been the invited speaker at 25 national and/or international conferences, and has presented 21 academic seminars throughout the United States, and China. Dr. Wang exceeds the criteria for Professor with tenure. He is a well-established and successful researcher committed to serving his profession and the university community. The MCOM Appointment, Promotion and Tenure Committee, and the chair of the Department of Molecular Pharmacology and Physiology recommend Dr. Wang for tenure at the rank of Professor. Dr. Charles J. Lockwood, Senior Vice President of USF Health, and Dean, MCOM along with Provost Ralph Wilcox and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
Agenda Item: FL 110

USF Board of Trustees
June 6, 2019

Issue: Faculty Nominations for Tenure

Proposed action: Approve USF St. Petersburg Faculty Nominees for Tenure

Background Information:

Attached is USF St. Petersburg list of faculty nominees for tenure for review and approval by the USF Board of Trustees. President Judy Genshaft has certified that the nominations for tenure have met the requirements and conditions contained in USF Regulations, Policies, and Procedures. She is satisfied that the nominees will make a significant professional contribution to USF St. Petersburg and the academic community in general. If approved, tenure will be awarded effective August 7, 2019.

Strategic Goal(s) Item Supports:
USF St. Petersburg Strategic Plan 2014-2019, Goal 3
USF Strategic Plan 2013-2018, Goal 1

BOT Committee Review Date:
Academic and Campus Environment Committee – May 14, 2019

Supporting Documentation: Yes

USF System or Institution specific: USF St. Petersburg

Prepared by: Dr. Allyson Watson, Interim CAO of Academic Affairs, 727-873-4290
MEMORANDUM

DATE: June 6, 2019

TO: Jordan Zimmerman, Chair

FROM: Judy Genshaft, President

SUBJECT: Faculty Nominations for Tenure, USF St. Petersburg

I am requesting that the enclosed Faculty Nominations for Tenure at USF St. Petersburg submitted to the USF Board of Trustees be approved. In nominating these faculty members for tenure and promotion, I certify that the requirements and conditions contained in USF Regulations, Policies, and Procedures for the granting of tenure and promotion have been met. I am satisfied that the nominees will make a significant professional contribution to USF St. Petersburg and the academic community.

Thank you for your consideration of this request. Please call me if you have any questions.

Enclosures
<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank Upon Tenure</th>
<th>Discipline</th>
<th>Degree of Effort*</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Sciences</td>
<td>Hossam Ashour</td>
<td>Associate Professor</td>
<td>Biological Sciences</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Casey Frechette</td>
<td>Associate Professor</td>
<td>Journalism &amp; Media Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Heather Judkins</td>
<td>Associate Professor</td>
<td>Biological Sciences</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Maria Leitte</td>
<td>Associate Professor</td>
<td>Biological Sciences</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Frederic Leveziel</td>
<td>Associate Professor</td>
<td>Society, Culture &amp; Language</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Richard Mbatu</td>
<td>Associate Professor</td>
<td>History &amp; Politics</td>
<td>1.0</td>
</tr>
<tr>
<td>College of Education</td>
<td>David Rosengrant</td>
<td>Associate Professor</td>
<td>College of Education</td>
<td>1.0</td>
</tr>
</tbody>
</table>

* If Less than 1.0 FTE
## Florida Equity Reports
### University of South Florida St. Petersburg
#### 2018-2019

**PART VII: Protected-class Representation in the Tenure Process, 2018-2019**

<table>
<thead>
<tr>
<th>Sex, Race/Ethnicity</th>
<th>*Applied</th>
<th>*Withdrawn</th>
<th>*Denied</th>
<th>*Deferred</th>
<th>*Nominated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Black or African American</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native Hawaiian/Other Pacific Islander</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two or More Races</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Other, Not Reported</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Male</strong> (include Other, Not Reported)</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td><strong>FEMALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Black or African American</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native Hawaiian/Other Pacific Islander</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two or More Races</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Other, Not Reported</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Female (Number and Percent)</strong></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>(include Other, Not Reported)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

*APPLIED: Faculty whose names have been submitted for tenure review. Sum of Withdrawn, Denied, and Nominated (or provide explanation).*

*WITHDRAWN: Faculty who withdrew from tenure consideration after applying for review.*

*DENIED: Faculty for whom tenure was denied during the review process.*

*NOMINATED Faculty for whom tenure is being recommended by the University.*
<table>
<thead>
<tr>
<th>Type of Committee</th>
<th>Black, not Hispanic</th>
<th>American Indian/Alaskan Native</th>
<th>Asian or Pacific Islander</th>
<th>Hispanic</th>
<th>White, not Hispanic</th>
<th>Other, Not Reported</th>
<th>Total including Other, Not Reported</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
<td>M</td>
</tr>
<tr>
<td>University Committee</td>
<td>E</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>College of Business</td>
<td>E</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>College of Arts &amp; Sciences</td>
<td>E</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>College of Education</td>
<td>E</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

E = Eligible to serve
S = Actually served (may include faculty from other USF campuses, who are not counted in eligible to serve)
Agenda Item: FL 111

USF Board of Trustees
June 6, 2019

Issue: Tenure Nomination as a Condition of Employment

Proposed action: Approve Tenure as a Condition of Employment, USF St Petersburg

Executive Summary:

USF St. Petersburg (USFSP) administrators such as the Regional Chancellor, Regional Vice Chancellors, Deans, and senior faculty are commonly awarded tenure as a condition of employment. Typically, these highly accomplished and qualified individuals have earned tenure at their previous institution(s), which makes them desirable candidates to USFSP. In order to attract them, USFSP must provide a package that is competitive with other nationally and internationally ranked institutions. Tenure upon appointment, among other things, is a term and condition of the employment package that makes USFSP an institution of choice.

Financial Impact:
Faculty granted tenure only will not receive a monetary award.

Strategic Goal(s) Item Supports:
USF St. Petersburg Strategic Plan 2014-2019, Goal 3
USF Strategic Plan 2013-2018, Goal 1

BOT Committee Review Date:
Academics and Campus Environment Committee – May 14, 2019

Supporting Documentation Online (please circle): Yes No
USF System or Institution specific: USF St. Petersburg

Prepared by: Dr. Allyson Watson, Interim CAO of Academic Affairs, 727-873-4290
MEMORANDUM

DATE: June 6, 2019

TO: Jordan Zimmerman, Chair

FROM: Judy Genshaft, President

SUBJECT: Tenure as a Condition of Employment Nominations, USF St. Petersburg

I am requesting that the enclosed Faculty Nominations for Tenure as a condition of Employment at USF St. Petersburg submitted to the USF Board of Trustees be approved. In nominating these faculty members for tenure, I certify that the requirements and conditions contained in USF Regulations, Policies, and Procedures for the granting of tenure have been met. I am satisfied that the nominees will make a significant professional contribution to USF St. Petersburg and the academic community.

Thank you for your consideration of this request. Please call me if you have any questions.

Enclosures
### Faculty Nominations for Tenure as a Condition of Employment, USF-St. Petersburg

**USF Board of Trustees Meeting – June 6, 2019**

<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank</th>
<th>Department/School</th>
<th>Degree of Effort*</th>
<th>Previous Institution</th>
<th>Tenure at Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kate Tiedemann College of Business</td>
<td>Tianxia (Tina) Yang</td>
<td>Associate Professor</td>
<td>Finance</td>
<td>1.0</td>
<td>Villanova University</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*If less than 1.0 FTE
University of South Florida St. Petersburg
Tenure Nominations as a Condition of Employment

Kate Tiedemann College of Business

Tianxia (Tina) Yang, Ph.D.

Dr. Yang will join the faculty at Kate Tiedemann College of Business on August 9, 2019 as Associate Professor with the Department of Finance, Economics, and Entrepreneurship.

Biography of Dr. Tianxia (Tina) Yang

Tianxia (Tina) Yang graduated with a Ph.D. in Finance from the University of Georgia in 2005. She also holds an M.B.A. and an M.S. in International Business from the University of Miami and a B.S. from the University of International Business and Economics in Beijing, China.

Tina comes to USF St. Petersburg from Villanova University. She joined Villanova University as an Assistant Professor of Finance in 2009 and received tenure in 2015. She also held the appointment of Assistant Professor of Finance at Clemson University from 2006 to 2009 and the appointment of Visiting Assistant Professor of Finance at the University of South Florida from 2005 to 2006. Tina has taught a large number of undergraduate and graduate level courses at Villanova University, Clemson University, the University of South Florida, and the University of Georgia, including corporate finance, financial management, financial markets and valuation, and international finance. Tina served as Faculty Director of the Villanova School of Business Honors Program. Tina is particularly passionate about elevating Villanova’s research culture and developing undergraduate students’ research skills.

Dr. Yang’s research interests span a wide range of corporate finance topics including corporate governance, sustainability, risk management, financial institutions, and mergers and acquisitions. She has published 12 articles in high quality peer-reviewed journals. Three of her articles are on the University of Texas at Dallas Premier Journal list and the Financial Times Top 50 journal list. Her co-authored 2012 article published in American Business Law Journal won the Journal’s 2013 Hoeber Outstanding Article Award. Her 2008 co-authored article published in the Journal of Financial Economics is the Journal’s third most cited paper for the period of 2008–2013. Her forthcoming article in Management Science is the Semifinalist for the Best Paper Award in Corporate Finance at the 2013 Financial Management Association (FMA) Annual Conference. Her co-authored 2015 article published in the Journal of Corporate Finance is the Finalist for the Best Paper Award at the 2015 FMA European Conference. She is the recipient of the Financial Services Exchange Research Award, an Oxford-Yale Research Grant, and a China National Natural Science Foundation research grant. She has made numerous presentations at premier national and international conferences.

Dr. Yang has served in multiple university level committees, including the University Board of Trustees Investment Committee at Villanova. Her service to the profession includes serving on the Board of Directors of Southern Finance Association. She also serves as discussant, session chair, and program committee member at conferences such as FMA, EFA, Northern Financial Association (NFA), and SFA. She has also served as an Ad Hoc reviewer for over 17 journals including Review of Financial Studies, Journal of Financial and Quantitative Analysis, and Journal of Financial Intermediation.

The Kate Tiedemann College of Business Tenure and Promotion Committee, the chair of the Department Finance, Economics, and Entrepreneurship, and Tenured Faculty of the Kate Tiedemann College of Business recommend Dr. Yang for tenure at the rank of Associate Professor. Dr. Sridhar Sundaram, Dean of the Kate Tiedemann College of Business, along with Interim Chief Academic Officer, Dr. Allyson Watson, and President Judy Genshaft, concur with this recommendation for tenure upon appointment.
Agenda Item: FL 112

USF Board of Trustees
June 6, 2019

Issue: Faculty Nomination for Tenure

Proposed action: Approve USF Sarasota-Manatee Faculty Nominee for Tenure

Background information:

Attached is USF Sarasota-Manatee’s list of faculty nominees for tenure for review and approval by the USF Board of Trustees. President Judy Genshaft has certified that the nominations for tenure have met the requirements and conditions contained in USF Regulations, Policies, and Procedures. She is satisfied that the nominees will make a significant professional contribution to USF Sarasota-Manatee and the academic community in general. If approved, tenure will be awarded effective August 7, 2019.

Financial Impact:

USF Sarasota-Manatee faculty granted tenure and promotion will receive a 9% salary increase and $5000 to Associate Professor and $7000 to Professor in special achievement. Faculty granted tenure only will not receive a monetary award.

Strategic Goal(s) Item Supports:
USF Sarasota-Manatee Strategic Plan 2015-2020, Goals 4 and 5
USF Strategic Plan 2013-2018, Goal 1

Workgroup Review Date:
Academic and Campus Environment Committee – May 14, 2019

Supporting Documentation Online (please circle): Yes No
Memorandum to Jordan Zimmerman, Chair, USF Board of Trustees
Faculty Nomination for Tenure

USF System or Institution specific:
USF Sarasota-Manatee

Prepared by: Karen Holbrook, Regional Chancellor, 941-359-4340
MEMORANDUM

DATE:       June 6, 2019

TO:         Jordan Zimmerman, Chair

FROM:       Judy Genshaft, President

SUBJECT:    Faculty Nominations for Tenure, USF Sarasota-Manatee

I am requesting that the enclosed Faculty Nominations for Tenure, USF Sarasota-Manatee, submitted to the USF Board of Trustees, be approved. In nominating these faculty members for tenure, I certify that the requirements and conditions contained in the USF Regulations, Policies, and Procedures, for the granting of tenure have been met. I am satisfied that the nominees will make a significant professional contribution to USF Sarasota-Manatee and the academic community.

Nominees for tenure:
   Kelly Cowart, Marketing
   Anthony Coy, Psychology
   Timothy Turner, English

Thank you for your consideration of this request. Please call me if you have any questions.
### Faculty Nominations for Tenure, USF Sarasota-Manatee- Effective 2019/2020

**USF Board of Trustees Meeting - June 6, 2019**

<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank Upon Tenure</th>
<th>Discipline</th>
<th>Degree of Effort*</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business</td>
<td>Kelly Cowart</td>
<td>Associate Professor</td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>College of Science and Math</td>
<td>Anthony Coy</td>
<td>Associate Professor</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>College of Liberal Arts and Social Sciences</td>
<td>Timothy Turner</td>
<td>Associate Professor</td>
<td>English</td>
<td></td>
</tr>
</tbody>
</table>

*If less than 1.0 FTE*
### Florida Equity Reports

**University of South Florida Sarasota-Manatee**

**2018-2019**

**PART VII: Protected-class Representation in the Tenure Process, 2018-2019**

<table>
<thead>
<tr>
<th>Sex, Race/Ethnicity</th>
<th>*Applied</th>
<th>*Withdrawn</th>
<th>*Denied</th>
<th>*Deferred</th>
<th>*Nominated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Black or African American</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native Hawaiian/Other Pacific Islander</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Two or More Races</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Other, Not Reported</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Male</strong> (include Other, Not Reported)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>FEMALES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaskan Native</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asian</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Black or African American</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Native Hawaiian/Other Pacific Islander</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Two or More Races</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>White</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other, Not Reported</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Female (Number and Percent)</strong> (include Other, Not Reported)</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

*APPLIED: Faculty whose names have been submitted for tenure review.  Sum of Withdrawn, Denied, and Nominated (or provide explanation).

*WITHDRAWN: Faculty who withdrew from tenure consideration after applying for review.

*DENIED: Faculty for whom tenure was denied during the review process.

*NOMINATED Faculty for whom tenure is being recommended by the University.
Issue: Faculty Nomination for Tenure as a Condition of Employment

Proposed action: Approve Tenure as a Condition of Employment for USF Sarasota-Manatee

Executive Summary:

USF Sarasota-Manatee (USFSM) administrators such as the Regional Chancellor, Regional Vice Chancellors, Deans, and senior faculty are commonly awarded tenure as a condition of employment. Typically, these highly accomplished and qualified individuals have earned tenure at their previous institution(s), which makes them desirable candidates to USFSM. In order to attract them, USFSM must provide a package that is competitive with other nationally and internationally ranked institutions. Tenure upon appointment, among other things, is a term and condition of the employment package that makes USFSM an institution of choice.

Financial Impact:
Faculty granted tenure only will not receive a monetary award.

Strategic Goal(s) Item Supports:
USF Sarasota-Manatee Strategic Plan 2015-2020, Goals 4 and 5
USF Strategic Plan 2013-2018, Goal 1

BOT Committee Review Date:
Academic and Campus Environment Committee – May 14, 2019

Supporting Documentation Online: Yes
Memorandum to Jordan Zimmerman, Chair, USF Board of Trustees
Tenure Nomination as a Condition of Employment
Faculty Profile

USF System or Institution specific: USF Sarasota-Manatee

Prepared by: Karen Holbrook, Regional Chancellor, 941-359-4340
MEMORANDUM

DATE: June 6, 2019

TO: Jordan Zimmerman, Chair

FROM: Judy Genshaft, President

SUBJECT: Faculty Nomination for Tenure as a Condition of Employment

USF Sarasota-Manatee

I am requesting that the enclosed Faculty Nomination for Tenure as a Condition of Employment, USF Sarasota-Manatee, submitted to the USF Board of Trustees, be approved. In nominating this faculty member for tenure, I certify that the requirements and conditions contained in the USF Regulations, Policies, and Procedures, for the granting of tenure have been met. I am satisfied that the nominee will make a significant professional contribution to USF Sarasota-Manatee and the academic community.

Nominee for tenure as a condition of employment:

Steven Miller, Risk Management and Insurance

Thank you for your consideration of this request. Please call me if you have any questions.
Faculty Nominations for Tenure as Condition of Employment, USF Sarasota-Manatee
USF Board of Trustees Meeting- June 6, 2019

<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Rank Upon Tenure</th>
<th>Discipline</th>
<th>Degree of Effort*</th>
<th>Previous Institution</th>
<th>Tenure at Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business</td>
<td>Steven Miller</td>
<td>Associate Professor</td>
<td>Risk Management and Insurance</td>
<td></td>
<td>Saint Joseph's University</td>
<td>Tenured Associate Professor</td>
</tr>
</tbody>
</table>

*If less than 1.0 FTE
University of South Florida Sarasota-Manatee
Tenure as a Condition of Employment
College of Business

Dr. Steve Miller will join the College of Business at USFSM as an Associate Professor of Risk Management & Insurance in August 2019. Dr. Miller is currently a tenured, Associate Professor at Saint Joseph’s University and has been a member of the faculty at Saint Joseph’s University since 2009. Dr. Miller holds a PhD in Risk Management & Insurance from the University of Georgia in Athens, GA, and a BA in Risk Management & Insurance and a BA in Finance, Investment, and Banking, both from the University of Wisconsin.

Dr. Miller has taught Corporate Risk Analysis on the graduate level, and various undergraduate courses such as Corporate Risk Management, Alternative Risk Financing, Natural Disasters and Community Recovery, Introduction to Insurance, Introduction to Finance, Property and Casualty, and Principles of Reinsurance. Prior to his academic career, Dr. Miller gained deep industry experience between 1994 and 2004 as a financial and actuarial consultant, regional manager of a team implementing large scale RMIS systems, and as practice leader / business development lead in Asia, South America and Central America.

Dr. Miller’s research has so far yielded six articles in peer-reviewed journals (3 in premier and 3 in top journals in RMI) and twelve conference proceedings/presentations. Dr. Miller’s research has been cited 168 times.

Dr. Miller received recognition for his academic accomplishments with an honorable mention, development fellowship, outstanding paper award, and outstanding teaching assistant award.

Dr. Miller has been instrumental in leading and developing the Saint Joseph’s University Risk Management & Insurance program to be one of the best programs in the nation.
Agenda Item: FL 114

USF Board of Trustees
June 6, 2019

Issue: 2019-20 Continuation Operating Budget

Proposed action: Approve 2019-20 Continuation Operating Budget at last year’s Operating Budget level. A subsequent approval will be needed once the legislative budget process has concluded with the Governor’s approval and the USF System annual budget has been established.

Executive Summary:
The University of South Florida System Board of Trustees (the BOT) is required to adopt an annual budget for the operation of the University. The BOT must approve the budget prior to July 1, 2019 for the State Comptroller to process cash releases for state funds. The universities are still required to submit a detailed operating budget to the BOG by August 21, 2019.

We are requesting approval of the following:
   Approval of a Continuation Operating Budget at the same level as 2018-19 Operating Budget. We are requesting approval of a continuation budget due to pending performance based funding decisions. Once those decisions have been finalized, the USF System will prepare an operating budget according to our guidelines and the laws and regulations of the Board of Governors and submit to the BOT for approval at a later meeting.

Financial Impact: See attached.

Strategic Goal(s) Item Supports: Goal 4 – Sound Financial Management
Committee Review Date: Finance Committee - May 14, 2019
Supporting Documentation Online (please circle): Yes No
USF System or Institution specific: USF System
Prepared by: Nell Peterson
974-6884
<table>
<thead>
<tr>
<th>University of South Florida System</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-20 Continuation Operating Budget Summary</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Budgeted Revenues:</th>
<th>2017-18 BOT Approved Budget</th>
<th>2018-19 BOT Approved Budget</th>
<th>Requested Continuation Operating Budget for 2019-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational &amp; General (E&amp;G)</td>
<td>$377,695,480</td>
<td>$374,513,982</td>
<td>$374,513,982</td>
</tr>
<tr>
<td>General Revenue</td>
<td>$374,513,982</td>
<td>$50,016,975</td>
<td>$50,016,975</td>
</tr>
<tr>
<td>Lottery</td>
<td>$271,423,177</td>
<td>$289,497,257</td>
<td>$289,497,257</td>
</tr>
<tr>
<td>Tuition (Budget Authority)</td>
<td>$1,322,569</td>
<td>$3,574,725</td>
<td>$3,574,725</td>
</tr>
<tr>
<td>Total E&amp;G</td>
<td>$693,795,414</td>
<td>$717,602,939</td>
<td>$717,602,939</td>
</tr>
<tr>
<td>Contracts &amp; Grants</td>
<td>$474,697,590</td>
<td>$490,181,105</td>
<td>$490,181,105</td>
</tr>
<tr>
<td>Auxiliaries</td>
<td>$274,425,511</td>
<td>$291,758,299</td>
<td>$291,758,299</td>
</tr>
<tr>
<td>Student Activities</td>
<td>$27,854,373</td>
<td>$27,732,168</td>
<td>$27,732,168</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>$277,695,480</td>
<td>$374,513,982</td>
<td>$374,513,982</td>
</tr>
<tr>
<td>Concessions</td>
<td>$769,718</td>
<td>$769,718</td>
<td>$769,718</td>
</tr>
<tr>
<td>Athletics</td>
<td>$50,044,774</td>
<td>$50,044,774</td>
<td>$50,044,774</td>
</tr>
<tr>
<td>Technology Fee</td>
<td>$1,037,422,685</td>
<td>$1,082,062,646</td>
<td>$1,082,062,646</td>
</tr>
<tr>
<td>Board Approved Fees</td>
<td>$8,036,624</td>
<td>$8,772,307</td>
<td>$8,772,307</td>
</tr>
<tr>
<td>Self-Insurance Trust Funds</td>
<td>$6,794,387</td>
<td>$5,834,992</td>
<td>$5,834,992</td>
</tr>
<tr>
<td>Faculty Practice</td>
<td>$398,231,544</td>
<td>$412,722,460</td>
<td>$412,722,460</td>
</tr>
<tr>
<td>Total Revenue</td>
<td>$2,234,683,154</td>
<td>$2,339,267,483</td>
<td>$2,339,267,483</td>
</tr>
<tr>
<td>Budgeted Expenditures:</td>
<td>$2,376,742,536</td>
<td>$2,464,396,522</td>
<td>$2,464,396,522</td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$2,376,742,536</td>
<td>$2,464,396,522</td>
<td>$2,464,396,522</td>
</tr>
<tr>
<td>Expenses</td>
<td>$588,767,970</td>
<td>$588,521,408</td>
<td>$588,521,408</td>
</tr>
<tr>
<td>Operating Capital Outlay</td>
<td>$8,036,624</td>
<td>$8,772,307</td>
<td>$8,772,307</td>
</tr>
<tr>
<td>Risk Management Insurance</td>
<td>$6,302,450</td>
<td>$5,446,573</td>
<td>$5,446,573</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>$7,917,004</td>
<td>$7,998,000</td>
<td>$7,998,000</td>
</tr>
<tr>
<td>Library Resources</td>
<td>$6,794,387</td>
<td>$5,834,992</td>
<td>$5,834,992</td>
</tr>
<tr>
<td>Debt Service</td>
<td>$3,243,855</td>
<td>$2,987,930</td>
<td>$2,987,930</td>
</tr>
<tr>
<td>Carry Forward</td>
<td>$118,716,239</td>
<td>$116,992,164</td>
<td>$116,992,164</td>
</tr>
<tr>
<td>Non-Operating Expenses</td>
<td>$209,226,782</td>
<td>$241,056,042</td>
<td>$241,056,042</td>
</tr>
<tr>
<td>Total Budgeted Expenditures</td>
<td>$2,376,742,536</td>
<td>$2,464,396,522</td>
<td>$2,464,396,522</td>
</tr>
</tbody>
</table>

Note: The 2019-20 Continuation Budget is requested at last year's level with adjustments for reserves, transfers out, and carry forward expenditures. The USF System will prepare a 2019-20 budget for submission to the BOG by August 21, 2019 and for presentation to the Board of Trustees at a future meeting.
**Agenda Item: FL 115**

**USF Board of Trustees**  
**June 6, 2019**

**Issue:** 2019-20 Preliminary Fixed Capital Outlay Budget

---

**Proposed action:**
1) Approval of 2019-20 Preliminary Fixed Capital Outlay Budget
2) Authorize the President to make necessary non-material adjustments to the 2019-20 Fixed Capital Outlay Budget, with the requirement that any material changes be approved by the University Board of Trustees Executive Committee.

---

**Executive Summary:**
Pursuant to 1011.012, Florida Statutes, the University Board of Trustees must adopt a fixed capital outlay budget for the fiscal year that designates proposed expenditures for the year from all fund sources.

**Preliminary 2019-2020 Fixed Capital Outlay Budget:**
The preliminary fixed capital outlay budget includes state appropriated funds and nonstate appropriated funds.

The budget for USF 2019-2020 State Appropriated Fixed Capital Outlay funds is based on the 2019 Appropriation Act and is consistent with approved legislative spending authority.

The preliminary budget for USF 2019-2020 Non-State Appropriated Fixed Capital Outlay Funds includes projects previously identified and approved by the UBOT to be funded from the issuance of debt.

**Financial Impact:**
The financial impact of the preliminary 2019-20 fixed capital outlay budget is $45,148,448.

---

**Strategic Goal(s) Item Supports:** Goals 1, 2, 3 and 4

**Committee Review Date:** Finance Committee, May 14, 2019

**Supporting Documentation Online (please circle):**
- Yes
- No

2019-20 Preliminary Fixed Capital Outlay Budget

**USF System or Institution specific:** USF System

**Prepared by:** Nick Trivunovich, Vice President for Business & Finance and CFO
### 2019-2020 PRELIMINARY FIXED CAPITAL OUTLAY BUDGET

**State Appropriated Fixed Capital Outlay Budget**

<table>
<thead>
<tr>
<th>Description</th>
<th>Budget Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projected Remaining Budget Authority Prior Year Appropriations - Maintenance, Repair, Renovation</td>
<td>$2,487,236</td>
</tr>
<tr>
<td>CPT Cooling Tower ($5) $354K; Laurel Dr Extension $815K; Well Field $153K</td>
<td></td>
</tr>
<tr>
<td>Other $672K; STP $201K; SM $292K</td>
<td></td>
</tr>
<tr>
<td>2018-2019 Appropriations - Maintenance, Repair, Renovation</td>
<td>$5,518,008</td>
</tr>
<tr>
<td>Cooling Tower $1.3M; Various small projects (Roof, Infrastructure, Utilities, Bldg Systems, Exterior, Interior, ADA Fire Code)</td>
<td></td>
</tr>
<tr>
<td>Projected Remaining Budget Authority Critical Deferred Maintenance Appropriation</td>
<td>$13,396</td>
</tr>
<tr>
<td>Projected Remaining Budget Authority Prior Year Appropriations Major Projects and Infrastructure</td>
<td>$18,253,420</td>
</tr>
<tr>
<td>Projected Remaining Budget Authority Prior Year CITF Appropriations Wellness Complex $15.7M; Smart Parking $888K; STP $1M; SM $767K; Other $450K</td>
<td>$18,876,388</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$45,148,448</td>
</tr>
</tbody>
</table>

**Non-State Appropriated Fixed Capital Outlay Budget**

<table>
<thead>
<tr>
<th>Description</th>
<th>Budget Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior Year Appropriation Major Projects and Infrastructure Details</td>
<td></td>
</tr>
<tr>
<td>Morsani College of Medicine and Heart Health Institute</td>
<td>14,053,103</td>
</tr>
<tr>
<td>Davis Hall Remodel/Renovation</td>
<td>3,051,680</td>
</tr>
<tr>
<td>Other Projects</td>
<td>1,148,637</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$18,253,420</td>
</tr>
<tr>
<td>Projected 2020 PECO Appropriation</td>
<td></td>
</tr>
<tr>
<td>Morsani College of Medicine and Heart Health Institute</td>
<td>$14,655,000</td>
</tr>
</tbody>
</table>
Agenda Item: FL 116

USF Board of Trustees
June 6, 2019

Issue: USF System Fixed Capital Outlay Legislative Budget Request
Five-Year Capital Improvement Plan 2020-2021/2024-2025

Proposed action:

1. Approval of the USF System Five-Year Capital Improvement Plan
   Summary and Project Detail and transmittal letter
2. Authorize the President to make necessary nonmaterial adjustments to
   the Five-Year Capital Improvement Plan, with the requirement that any
   material changes be approved by the University Board of Trustees
   Executive Committee.

Executive Summary:

Pursuant to Sections 216.158, 216.043 and 1013.64, Florida Statutes, the
preparation and submission of the State University System (SUS) Fixed Capital
outlay (FCO) Budget Request requires that each college and university update its
Capital Improvement Plan (CIP). The CIP, as used by the Florida Board of
Governors, is intended to present the additional academic and academic support
facilities needed for a five-year period for which state funds are requested.
Separate sections on the CIP are provided for CITF projects and future projects
which require state funding or may be funded from non-state sources, such as
debt. Each institution’s CIP will be used to select projects for inclusion within the
SUS Three-Year PECO Project Priority List, to prepare the SUS Five-Year CIP.

Each University Board of Trustees must approve the University’s CIP prior to
submittal. The due date for submission is July 1, 2019.

Financial Impact:

Strategic Goal(s) Item Supports: Goal 1; Goal 2; Goal 3; Goal 4
Committee Review Date: Finance Committee, May 14, 2019
Supporting Documentation Online (please circle): Yes No
USF System or Institution specific: USF System
Prepared by: Nick Trivunovich, Vice President for Business & Finance and CFO
Mr. Tim Jones, Vice Chancellor, Finance/Administration and Chief Financial Officer
Florida Board of Governors
325 W. Gaines Street, Suite 1614
Tallahassee, Florida 32399

Dear Mr. Jones:

The USF System is pleased to submit its 2020-2021/2024-2025 Fixed Capital Outlay Legislative Budget Request. The enclosed forms, data, and narratives reflect the instructions and directions for the preparation of the Capital Improvement Plan (CIP).

Major changes from the FY 2019-2020 submission include:

Project list has been prioritized based on directions in the BOG Memorandum dated April 17, 2019.

TPA- Interdisciplinary Science Research Lab Build Out project @ $9,031,204 is no longer listed on the CIP-2 request based on BOG guidance for removal of projects that have not received funding effective July 1, 2017. Last funding year was FY 2013-14.

According to BOG Memorandum, debt projects previously listed in the now removed “Requests from Non-State Sources, Including Debt” were moved from the CIP2 document to this transmittal letter. The University is requesting Legislative authorization to use Debt to meet the Capital Construction requirements for the following projects:

- USF Research Park Mixed-Use Laboratory and Office Building @ $42,000,000
- USFSP Construct Phase II Parking Garage @ $9,200,000
- USFSM Student Housing @ $35,722,572
- USFSM Student Center @ $33,232,000

The following Non-State Source projects previously listed in the now removed “Requests from Non-State Sources, Including Debt” are:

- TPA- Honors College @ $ 40,000,000
- TPA- USF Football Center @ $40,000,000

The USF System project priority list includes every requested project, including projects for USF separately accredited institutions. Utilization data was taken into consideration in prioritization of the USF System CIP funding request. The USF System’s building program and CIP was considered and approved by the University Board of Trustees at its June 6, 2019 meeting. Minutes of this meeting can be found at: https://www.usf.edu/system/board-of-trustees/bot-meeting-archives.aspx.

The USF System request is based on the Strategic Plan developed and approved by our Board of Trustees and supports the Board of Governors Strategic Plan goals and objectives. The priorities established in the strategic plan are reflected in proposals that focus on our commitment to providing access to the highest quality programs and robust research infrastructure. The USF System is a growing institution in one of Florida’s fastest growing metropolitan areas and will continue to provide a strong return on state
investments through world-class education, research productivity, health care innovation, and community outreach.

If you or your staff have any questions regarding our submission or require additional information, please contact David Lechner at 813-974-3297.

Sincerely,

Jordan B. Zimmerman, Chair
USF Board of Trustees

cc: Judy Genshaft, USF System President
    David Lechner, Senior Vice President for Business & Financial Strategy, USF System
    Nick Trivunovich, Vice President for Business & Finance, USF System
    Calvin Williams, Vice President for Administrative Services, USF System
### PECO-ELIGIBLE PROJECT REQUESTS

<table>
<thead>
<tr>
<th>Priority</th>
<th>Project Title</th>
<th>2020-21</th>
<th>2021-22</th>
<th>2022-23</th>
<th>2023-24</th>
<th>2024-25</th>
<th>Academic or Other Programs</th>
<th>Assignable Square Feet</th>
<th>Gross Square Feet</th>
<th>Project Cost</th>
<th>Per GSF</th>
<th>Plant Survey</th>
<th>Recommended Date/Rec No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USF Health Morsani College of Medicine and Heart Institute</td>
<td>14,655,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>USF Health</td>
<td>174,450</td>
<td>241,594</td>
<td>***</td>
<td>172,900,000</td>
<td>516 $</td>
<td>5.1</td>
</tr>
<tr>
<td>2</td>
<td>Renovate USF System Central Plants</td>
<td>8,063,098</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Campus-wide</td>
<td>not appl</td>
<td>not appl</td>
<td>not appl</td>
<td>8,063,098</td>
<td>1.3a</td>
<td>CIP-2A, Summary of Projects - Revised April 15, 2019</td>
</tr>
<tr>
<td>3</td>
<td>Renovate Bio-Science Facility Research Labs (BSF)</td>
<td>18,105,993</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sciences</td>
<td>39,600</td>
<td>39,600</td>
<td>18,105,993</td>
<td>457 $</td>
<td>see Narrative</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Renovations to Relocate University Police</td>
<td>10,525,886</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Campus-wide</td>
<td>54,863</td>
<td>54,863</td>
<td>***</td>
<td>10,525,886</td>
<td>193 $</td>
<td>3.5</td>
</tr>
<tr>
<td>5</td>
<td>Academic STEM Facility (SM)</td>
<td>12,622,679</td>
<td>29,628,330</td>
<td>4,700,000</td>
<td></td>
<td></td>
<td>Multiple</td>
<td>45,450</td>
<td>75,000</td>
<td>46,951,010</td>
<td>626.01</td>
<td>3.9</td>
<td>pending</td>
</tr>
<tr>
<td>6</td>
<td>Engineering Research Building 4</td>
<td>24,105,535</td>
<td>71,783,808</td>
<td>4,259,160</td>
<td></td>
<td></td>
<td>Engineering</td>
<td>104,979</td>
<td>173,215</td>
<td>***</td>
<td>150,000,000</td>
<td>865.98</td>
<td>3.3</td>
</tr>
<tr>
<td>7</td>
<td>Facility Purchase (STP)</td>
<td>18,000,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Multiple</td>
<td>54,000</td>
<td>81,000</td>
<td>18,000,000</td>
<td>222.22</td>
<td>pending</td>
<td>pending</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>106,076,174</td>
<td>101,412,139</td>
<td>8,999,160</td>
<td>0</td>
<td>0</td>
<td>USF EPS 2017</td>
<td></td>
<td></td>
<td>***</td>
<td>Includes private fundraising</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* replaces a former new building request

**STATE UNIVERSITY SYSTEM**

Five-Year Capital Improvement Plan (CIP-2) and Legislative Budget Request
Fiscal Years 2020-21 through 2024-25

CIP-2A, Summary of Projects - Revised April 15, 2019
<table>
<thead>
<tr>
<th>No.</th>
<th>Project Title</th>
<th>2020-21</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Academic or Other Programs to Benefit</th>
<th>Net Assignable Square Foot (NASF)</th>
<th>Gross Square Foot (GSF)</th>
<th>Project Cost Per GSF (Proj. Cost/GSF)</th>
<th>Committee Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USF Wellness Center Complex Phase I</td>
<td>$4,052,762</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Student Affairs</td>
<td>31,078</td>
<td>47,067</td>
<td>533</td>
<td>5.7.18</td>
</tr>
<tr>
<td>2</td>
<td>USF Health Student Resource Center – Phase 1</td>
<td>$731,022</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Student Affairs</td>
<td>8,400</td>
<td>12,600</td>
<td>156</td>
<td>5.9.18</td>
</tr>
<tr>
<td>3</td>
<td>USFSP Coquina Hall Student Space Modification Phase II</td>
<td>$443,097</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Student Affairs</td>
<td>3,550</td>
<td>4,780</td>
<td>220</td>
<td>4.26.18</td>
</tr>
<tr>
<td>4</td>
<td>USFSP University Student Center Remodel</td>
<td>$180,687</td>
<td>$623,684</td>
<td>$623,684</td>
<td></td>
<td></td>
<td></td>
<td>Student Affairs</td>
<td>5,000</td>
<td>5,000</td>
<td>72045</td>
<td>4.11.19</td>
</tr>
<tr>
<td>5</td>
<td>USF Sarasota-Manatee Co-curricular and Wellness Support Facilities Phase VII</td>
<td>$245,106</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Student Affairs</td>
<td>3,108</td>
<td>4,780</td>
<td>1,288,345</td>
<td>4.13.18</td>
</tr>
</tbody>
</table>

**TOTAL**                                                                 $6,253,474 $623,684 $623,684 $72045 0
### Non-State Supplemental Funding of PECO and/or CITF Projects only

<table>
<thead>
<tr>
<th>Project</th>
<th>Year 1 (GSF)</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5 (GSF)</th>
<th>Project Cost Per GSF</th>
<th>Source of Funding</th>
<th>Year of Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF Health Morsani College of Medicine and Heart Institute</td>
<td>60,351,882</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>153,600</td>
<td>Fundraising</td>
<td>2015</td>
</tr>
</tbody>
</table>

**TOTAL**: 60,351,882
The USF Health Morsani College of Medicine (MCOM) currently admits 120 medical students per year to the CORE program and 6 per year to the SELECT program (based in Tampa for Years 1 and 2 of the 4-year program). Therefore, at any given time, there are approximately 200 medical students on the Tampa campus. The current inventory of physical facilities is at its maximum capacity and cannot meet the needs of projected enrollment growth. The facility was originally built in the 1970s with a projected maximum capacity of 96 medical students per class (or roughly 400 medical students total). The new Morsani College of Medicine currently under construction will be colocated with the USF Heart Institute (MCOM + HI) in the heart of a vibrant downtown Tampa urban renewal project, attracting top-tier medical faculty, students and researchers.

The new location also places the medical school closer to its primary teaching affiliate, Tampa General Hospital, and the USF Health Center for Advanced Medical Learning & Simulation (CAMLS). The educational space is being designed with maximum flexibility in mind while simultaneously infusing technology and innovation at every turn. A common area will be the large lecture halls that can each accommodate 220 students and up to 450 students when combined. Other floors accommodate learning communities with ample small group learning space. A multipurpose experiential learning lab will enable embedded preclinical students from theory to practice and bench to bedside. All of the future-facing educational space will be supported by a state-of-the-art library and information technologies knowledge exchange.

The new MCOM building will also be the home of the new physician assistant (PA) program in addition to an array of inter-professional education activities. The Heart Institute portion of the MCOM + HI includes a clinic/medical research facility that will focus on cardiovascular research targeted to near methods to diagnose and treat CV disease and risk factors. Establishing this Cardiovascular Institute will enable USF Health to have state-of-the-art research facilities dedicated to the number one cause of death in Florida and the country, as well as educate an entire new generation of heart specialists for the region and beyond. One additional goal will be to provide education for patients as well. Constructing this ultramodern facility will bring to the Tampa Bay area a leading center for cardiovascular research by leading cardiac clinical trials and quickly bringing research discoveries from lab bench to patient bedside, and uniquely, to the patient’s home (Bringing Science Home theme). It will also offer broad opportunities for collaborations research, within USF Health and also with USF partners.

### CIP-3, B - PROJECT DESCRIPTION

<table>
<thead>
<tr>
<th>Facility/Space</th>
<th>Net to Gross</th>
<th>Net to Gross</th>
<th>Unit Cost</th>
<th>Construction Assumed</th>
<th>Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Area (NASF)</td>
<td>Area (GSAF)</td>
<td>Cost/JSF</td>
<td>Space</td>
<td>Net Area</td>
</tr>
<tr>
<td>College of Med</td>
<td>64,000</td>
<td>86,400</td>
<td>380</td>
<td>32,652,000</td>
<td>16,359,570</td>
</tr>
<tr>
<td>Heart Inst Labs</td>
<td>75,000</td>
<td>100,000</td>
<td>380</td>
<td>16,359,570</td>
<td></td>
</tr>
<tr>
<td>Aud/Dring/Sup</td>
<td>31,890</td>
<td>43,052</td>
<td>380</td>
<td>16,359,570</td>
<td></td>
</tr>
<tr>
<td>Faculty Offices</td>
<td>22,790</td>
<td>28,947</td>
<td>380</td>
<td>16,359,570</td>
<td></td>
</tr>
<tr>
<td>Clinical Labs/Trial</td>
<td>5,775</td>
<td>8,666</td>
<td>380</td>
<td>16,359,570</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 144,950

*Apply Unit Cost to total GSAF based on primary space type*  
Remodeling/Removal

<table>
<thead>
<tr>
<th>Total Construction</th>
<th>91,805,720</th>
</tr>
</thead>
<tbody>
<tr>
<td>New &amp; Rem. Remov.</td>
<td>91,805,720</td>
</tr>
<tr>
<td>Total</td>
<td>91,805,720</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### CIP-3, C - SCHEDULE OF PROJECT COMPONENTS

<table>
<thead>
<tr>
<th>Funded to</th>
<th>1. BASIC CONSTRUCTION COSTS</th>
<th>Date</th>
<th>1 Year</th>
<th>2 Year</th>
<th>3 Year</th>
<th>4 Year</th>
<th>5 Year</th>
<th>Funded &amp; In CIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add/Extraordinary Constr. Costs</td>
<td>a. Construction Cost (from above)</td>
<td>17,585,120</td>
<td>14,682,060</td>
<td>92,205,720</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Environmental/Impacts/Mitigation</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Site Preparation</td>
<td>1,000,000</td>
<td>1,000,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Landscaping/Irrigation</td>
<td>30,000</td>
<td>30,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Plaza/Walks</td>
<td>20,000</td>
<td>20,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Roadway Improvements</td>
<td>20,000</td>
<td>20,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Parking</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Telecommunication</td>
<td>1,630,408</td>
<td>1,630,408</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Electrical Service</td>
<td>40,000</td>
<td>40,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>j. Electrical Utilities Impact</td>
<td>40,000</td>
<td>40,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>k. Water Distribution - Potable &amp; Irrigation</td>
<td>40,000</td>
<td>40,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>l. Sanitary Sewer System</td>
<td>40,000</td>
<td>40,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m. Chilled Water/Serv and Hot Water syst</td>
<td>5,000</td>
<td>5,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Storm Water System</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Security System</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Energy Efficient Equipment</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>q. Emergency Generator</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>r. UPS Units</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>s. Hurricane Hardening</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Construction Costs</td>
<td>80,416,128</td>
<td>14,665,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>95,071,128</td>
<td></td>
</tr>
<tr>
<td>2. OTHER PROJECT COSTS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Landscaping facility acquisition</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Professional Fees</td>
<td>11,513,593</td>
<td>11,513,593</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Fire Marshal Fees</td>
<td>102,678</td>
<td>102,678</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Inspection Services</td>
<td>1,000,000</td>
<td>1,000,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Insurance Consultant</td>
<td>268,306</td>
<td>268,306</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Surveys &amp; Tests</td>
<td>347,506</td>
<td>347,506</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Permit/Impact/Environmental Fees</td>
<td>148,285</td>
<td>148,285</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Artwork</td>
<td>100,000</td>
<td>100,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Moveable Furnishings &amp; Equipment</td>
<td>1,500,000</td>
<td>1,500,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>j. Project Contingency</td>
<td>2,496,622</td>
<td>2,496,622</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total - Other Project Costs</td>
<td>17,476,990</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALL COSTS</td>
<td>112,548,118</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Appropriations to Date</th>
<th>Project Costs Beyond CIP Period</th>
<th>Total Project In CIP &amp; Beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Fiscal Year</td>
<td>Amount</td>
<td>Source</td>
</tr>
<tr>
<td>PECO</td>
<td>2012-13</td>
<td>6,899,118</td>
</tr>
<tr>
<td>2013-14</td>
<td>12,500,000</td>
<td>Fund Raising TBD</td>
</tr>
<tr>
<td>2014-15</td>
<td>20,000,000</td>
<td></td>
</tr>
<tr>
<td>2015-16</td>
<td>17,000,000</td>
<td>to add 153,600 GSAF and research equipment</td>
</tr>
<tr>
<td>2016-17</td>
<td>22,500,000</td>
<td></td>
</tr>
<tr>
<td>2017-18</td>
<td>12,000,000</td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td>7,000,000</td>
<td></td>
</tr>
<tr>
<td>2019-20</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 112,548,118
CIP-3 A - NARRATIVE DESCRIPTION:
USF TPA - 006 CPT Critical Steam / HW. B-5 Has Failed: Redundancy Lost. The CPT Steam Boiler System produces central heating and reheat hot water throughout campus including many critical Research, Medical and Health Facilities as well as providing potable hot water heating to many Residential Housing Facilities needed for student showers. Replacing CPT Boiler B-5 system is paramount to maintaining this necessary service. For greater energy efficiency we are converting the boilers from steam to condensing hot water. Consequences if not installed: Replacing critical steam boiler B-5 is necessary to maintaining operational plant capacity and redundancy. Additionally, the CPT Steam Boilers support humidity control systems necessary for critical hospital operating suites and medical research facilities and other important environmental and comfort systems throughout Campus. Not replacing the failed equipment will have a negative impact on sensitive research facilities, student experience and patients.

At USF St. Petersburg two of the four centrifugal chillers in the central utility plant are 23 years old and will reach the end of their useful lives in the next 18 months. These two chillers have become very costly to maintain. This request will dramatically improve our reliability and increase capacity to attain the desired N+1 condition. Improved technology will result in significant efficiencies and energy savings when the new machines are operational. The request includes increasing the size of the two replacement chillers from 1,000 tons each to 1,200 – 1,300 tons each. USF Sarasota-Manatee (USFSM) requests funding to plan, design and construct the replacement of Chiller #2 and associated chilled water system improvements to support the glycol system. Chiller #2 has reached the end of its useful life and requires substantial maintenance investment on a recurring basis. The proposed project will replace the existing 280-ton chiller with a 320-ton chiller for increased capacity and efficiency. Additionally, a glycol pump and heat exchanger will be added to provide full redundancy for the glycol cooling system. Upon completion, the CEP chilled water system will have N+1 redundancy as recommended by USF System standards.

CIP-3 B - PROJECT DESCRIPTION

<table>
<thead>
<tr>
<th>Facility/Space</th>
<th>Net Area Gross (NASF)</th>
<th>Net to Gross Conversion</th>
<th>Gross Area Gross (GSF)</th>
<th>Unit Cost (Cost/GSF)</th>
<th>Construction Cost</th>
<th>Bid Date</th>
<th>Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
<td>BEFORE</td>
</tr>
<tr>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
<td>AFTER</td>
</tr>
<tr>
<td>Space Detail for Remodeling Projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Apply Unit Cost to total GSF based on primary space type

CIP-3 C - SCHEDULE OF PROJECT COMPONENTS

1. BASIC CONSTRUCTION COSTS

<table>
<thead>
<tr>
<th>Funded to</th>
<th>Date</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Funded &amp; In CIP</th>
</tr>
</thead>
</table>
a. Construction Cost (from above) | | 0      |        |        |        |        | 0               |
b. Add/Extraordinary Const. Costs | | 0      |        |        |        |        | 0               |
c. Environmental Impacts/Mitigation | | 0      |        |        |        |        | 0               |
d. Site Preparation | | 0      |        |        |        |        | 0               |
e. Landscape/ Irrigation | | 0      |        |        |        |        | 0               |
f. Plaza/Walks | | 0      |        |        |        |        | 0               |
g. Roadway Improvements | | 0      |        |        |        |        | 0               |
h. Glycol System (SM) | 100,000 | 100,000 |        |        |        | 0               |
i. Electrical Service (SM) | 30,000 | 30,000 |        |        |        | 0               |
j. Chiller #2 Replacement (SM) | 600,000 | 600,000 |        |        |        | 0               |
k. Chiller #1 & #2 Replacement (SP) | 3,000,000 | 3,000,000 |        |        |        | 0               |
l. Boiler Replacement | 2,784,000 | 2,784,000 |        |        |        | 0               |
m. Storm Water System | | 0      |        |        |        |        | 0               |

Total Construction Costs | 6,709,420 | 0      | 0      | 0      | 0      | 0      | 6,709,420 |

2. OTHER PROJECT COSTS

<table>
<thead>
<tr>
<th>Funded to</th>
<th>Date</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Funded &amp; In CIP</th>
</tr>
</thead>
</table>
a. Land/Existing facility acquisition | | 0      |        |        |        |        | 0               |
b. Professional Fees | 605,550 | 605,550 |        |        |        | 0               |
c. Fire Marshall Fees | 16,774 | 16,774 |        |        |        | 0               |
d. Inspection Services | 67,094 | 67,094 |        |        |        | 0               |
e. Insurance Consultant | 4,026 | 4,026 |        |        |        | 0               |
f. Surveys & Tests | | 0      |        |        |        |        | 0               |
g. Permit/Impact/Environmental Fees | 35,210 | 35,210 |        |        |        | 0               |
h. Artwork | | 0      |        |        |        |        | 0               |
i. Moveable Furnishings & Equipment | | 0      |        |        |        |        | 0               |

Total - Other Project Costs | 0 | 1,353,678 | 0 | 0 | 0 | 0 | 1,353,678 |

ALL COSTS 1+2 | 0 | 8,063,098 | 0 | 0 | 0 | 0 | 8,063,098 |
State University System of Florida  
CIP - 3 PROJECT DETAIL  
Revised April 15, 2019

University Name: University of South Florida  
Project Address: Tampa Campus  
Project Title: Renovate Bio-Science Facility Research Labs (BSF)

CIP-3 A - NARRATIVE DESCRIPTION:
The BioScience Facility (BSF) was built in 1993 with 60,000 gross square feet on 3 floors, and has never undergone a major renovation. It is used for Chemistry and Biology research, supporting externally funded research by faculty members, graduate students and undergraduate researchers. It is subdivided into small labs that are in poor condition making it difficult to recruit new STEM faculty to the space. We will reconfigure the floor plan from ~45 small labs into six 6500 sf open labs, with a total of 3600 linear feet of assignable bench space that can be dynamically assigned depending on the size and funding of each individual research group. This will expand the capacity and capability of the building to support research, increasing the number of faculty driven research groups from 17 to 26. Both Biology and Chemistry need to recruit new faculty in the areas of Genome Integrity, Mechanisms of Aging, Structural and Computational Biology, Bacterial Pathogenesis, Synthetic Organic Chemistry, Drug Discovery, and Biochemistry. These programs will improve national rankings of the College of Arts and Sciences and support both the BOG and BOT strategic plans by increasing the quality of STEM research and increasing both undergraduate and graduate student success expected at a Preeminent University, resulting in "well-educated citizens able to work in diverse fields from Science and engineering to medicine and bioscience to computer science". Most of the undergraduates educated in Biology and Chemistry plan careers in bioscience and medicine while the majority of graduate students look to careers in biotechnology, chemistry or academia. Several upcoming degree program revisions in both Chemistry and Biology will benefit from this renovation. Note this project does not change current space type uses, therefore Educational Plant Survey may not be necessary.

<table>
<thead>
<tr>
<th>CIP-3, B - PROJECT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net to</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td><strong>Space Detail for Remodeling Projects</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>Totals</td>
</tr>
</tbody>
</table>

*Apply Unit Cost to total GSF based on primary space type Research Lab 39,600 Research Lab 39,600

Remodeling/Renovation:
- Inflation 3% 415,800
- Total Construction - New & Rem./Renov. 14,275,800

CIP-3, C - SCHEDULE OF PROJECT COMPONENTS

<table>
<thead>
<tr>
<th>ESTIMATED COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. BASIC CONSTRUCTION COSTS</strong></td>
</tr>
<tr>
<td>Funded to <strong>Date</strong></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>a. Construction Cost (from above)</td>
</tr>
<tr>
<td>b. Environmental Impacts/Mitigation</td>
</tr>
<tr>
<td>c. Site Preparation</td>
</tr>
<tr>
<td>d. Landscape/Irrigation</td>
</tr>
<tr>
<td>e. Plaza/Walks</td>
</tr>
<tr>
<td>f. Roadway Improvements</td>
</tr>
<tr>
<td>g. Parking ___ spaces</td>
</tr>
<tr>
<td>h. Telecommunication</td>
</tr>
<tr>
<td>i. Electrical Service</td>
</tr>
<tr>
<td>j. Water Distribution</td>
</tr>
<tr>
<td>k. Sanitary Sewer System</td>
</tr>
<tr>
<td>l. Chilled Water System</td>
</tr>
<tr>
<td>m. Storm Water System</td>
</tr>
<tr>
<td>n. Emergency Generator</td>
</tr>
<tr>
<td>Total Construction Costs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. OTHER PROJECT COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funded to <strong>Year 1</strong></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>a. Land/existing facility acquisition</td>
</tr>
<tr>
<td>b. Professional Fees</td>
</tr>
<tr>
<td>c. Fire Marshall Fees</td>
</tr>
<tr>
<td>d. Inspection Services</td>
</tr>
<tr>
<td>e. Insurance Consultant</td>
</tr>
<tr>
<td>f. Surveys &amp; Tests</td>
</tr>
<tr>
<td>g. Permit/Impact/Environmental Fees</td>
</tr>
<tr>
<td>h. Artwork</td>
</tr>
<tr>
<td>i. Moveable Furnishings &amp; Equipment</td>
</tr>
<tr>
<td>j. Project Contingency</td>
</tr>
<tr>
<td>Total - Other Project Costs</td>
</tr>
</tbody>
</table>

**Total Project Costs Beyond CIP Period**

<table>
<thead>
<tr>
<th>Appropriations to Date</th>
<th><strong>Fiscal Year</strong></th>
<th><strong>Amount</strong></th>
<th>Project Costs Beyond CIP Period</th>
<th><strong>Fiscal Year</strong></th>
<th><strong>Amount</strong></th>
<th>Total Project In CIP &amp; Beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+2</td>
<td>0</td>
<td>18,105,993</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>18,105,993</td>
</tr>
</tbody>
</table>
USF Police need facilities to support the daily UPD operations and emergency needs in order to adequately serve increasing needs and changing threats to public safety. The project location at NEC offers enhanced access, better visibility, more timely response to threats, and a more hardened building and is therefore an ideal location. With USF growth in sponsored research, overall campus population, residential student population, and legislatively expanded jurisdiction of University Police Department (UPD), all include greater demand on public safety and emergency management resources, personnel, and space to support the USF mission. The current 1950’s facility was originally a small house, never intended to support a modern day law enforcement agency. Patrol, Investigations, Administration and support staff do not have adequate space to perform their duties, some work in closets converted to office space. The existing facility continues to deteriorate including major plumbing and electrical issues. Inadequate parking and storage areas stifle the department’s ability to grow and meet the community’s expectations. The existing police facilities are approximately 9,000 NASF and 14,410 GSF; including a deteriorated doublewide trailer used for student-oriented self-defense training and other departmental training. Site constraints make it impossible to expand the current facility. The existing UPD building was not constructed to withstand the minimum hurricane force winds required by current code. The UPD needs a facility of size to accommodate 100 sworn police officers and 25 civilian employees. In order to relocate the existing NEC occupants of different disciplines, remodeling of the Radio, TV, and MHA buildings is required. This remodeling project replaces the Public Safety Building project previously requested for PECO funding which has 2017 Educational Plant Survey Recommendation 3.5.
CIP-3 A, B, C (Revised 4/2019)

State University System of Florida   CIP - 3   PROJECT DETAIL   Revised April 15, 2019

University Name: University of South Florida

Project Address: Sarasota Manatee Campus

CIP-3 A - NARRATIVE DESCRIPTION:
USF Sarasota-Manatee (USFSM) requests funding to plan, design, construct and provide fixtures, furnishings and equipment for the USF Sarasota-Manatee Academic STEM Facility. USFSM has offered undergraduate STEM academic programs since 2013 with limited on-campus lab space and off-campus instructional labs at Mote Marine Laboratory. Construction of the proposed facility will enable USFSM to create new and expand current STEM-related academic programs, provide new research capabilities and increase research productivity, host academic conferences and community events, attract and retain excellent faculty and students, and support national, state, regional and local demands for graduates with STEM-related degrees.

Plant Operations & Maintenance (PO&M) Funding:
PO&M will be funded by Education & General (E&G) funding.

Campus Master Plan Reference:
This project is included in the adopted USF Sarasota-Manatee 2015-2025 Campus Master Plan Update.

Educational Plant Survey Reference:
This project is included in the 2017 USF System Educational Plan Survey as Recommendation No. 3.9.

CIP-3 B - PROJECT DESCRIPTION

<table>
<thead>
<tr>
<th>Facility/Space Type</th>
<th>Net Area (NASF)</th>
<th>Gross Area Conversion (GSCF)</th>
<th>Gross Area (GSF)</th>
<th>Unit Cost (Cost/GSF)*</th>
<th>Construction Cost</th>
<th>Assumed Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Labs</td>
<td>18,550</td>
<td>1.65</td>
<td>30,608</td>
<td>357</td>
<td>10,025,041</td>
<td></td>
</tr>
<tr>
<td>Research Labs</td>
<td>14,000</td>
<td>1.65</td>
<td>23,100</td>
<td>425</td>
<td>9,812,880</td>
<td></td>
</tr>
<tr>
<td>Offices</td>
<td>14,000</td>
<td>1.65</td>
<td>23,100</td>
<td>425</td>
<td>9,812,880</td>
<td></td>
</tr>
<tr>
<td>Clinical Labs</td>
<td>3,200</td>
<td>1.65</td>
<td>5,287</td>
<td>425</td>
<td>2,245,918</td>
<td></td>
</tr>
<tr>
<td>Study</td>
<td>1,600</td>
<td>1.65</td>
<td>2,640</td>
<td>357</td>
<td>942,322</td>
<td></td>
</tr>
<tr>
<td>Campus Support</td>
<td>500</td>
<td>1.65</td>
<td>825</td>
<td>357</td>
<td>294,476</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>45,450</td>
<td>75,000</td>
<td>28,765,369</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Apply Unit Cost to total GSF based on primary space type

Inflation 3%

$862,961

Total Construction - New & Rem./Renov.

29,628,330

CIP-3 C - SCHEDULE OF PROJECT COMPONENTS

<table>
<thead>
<tr>
<th>Component Description</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>FY 2023</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Cost</td>
<td>29,628,330</td>
<td>5,116,417</td>
<td>29,628,330</td>
<td>0</td>
<td>0</td>
<td>46,951,010</td>
</tr>
<tr>
<td>Land/Existing Facility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Environmental Impacts/Mitigation</td>
<td>15,000</td>
<td>15,000</td>
<td>15,000</td>
<td>15,000</td>
<td>15,000</td>
<td>15,000</td>
</tr>
</tbody>
</table>

Total Construction Costs

1,481,417

Total funded in CIP

29,628,330

ALL COSTS

1+2

0 | 12,622,679 | 29,628,330 | 4,700,000 | 0 | 0 | 46,951,010

653
# CIP-3 A - NARRATIVE DESCRIPTION:

The College of Engineering is improving the overall student educational experience—both undergraduate and graduate; providing faculty and staff access to key technological areas; building stronger relationships between research and teaching; and inducing innovation. Our investments are aligned with USF's and the College's strategic priorities. In particular, our investments support our continued contribution to the ten Tier 1 Performance Metrics upon which the Performance Based Funding is based, Carnegie, and AAU metrics. As part of this effort we are in an ongoing process of attracting and retaining faculty and talented graduate students in critical research areas. We must reach to 225 tenure/tenure earning faculty and 1000 doctoral students, and be among the top 30 public ranked Colleges of Engineering. The Engineering Building 4 is the key missing component that limits our ability to achieve the USF goals. We must create a landscape where the boundaries between industry and academia are blurred and where the educational obstacles imposed by historical customs of separating students in the various disciplines are removed. Engineering Building 4 is envisioned as a 250,000sf facility devoted to impactful discovery, with no discernable internal departmental boundaries, integrated laboratories and teaching spaces devoted to solving pressing challenges of the times— starting with environmental issues around water, cybersecurity, automation and rehabilitation robotics, medical devices and health care, secure and renewable energy, safe and efficient transportation— readily transitioning to new challenges as they arise. This will be an iconic locale where intellectual collisions occur between engineers, scientists, doctors, nurses, business, artists, and others needed to address the problems of interest and concern. The project is included in the 2015-2020 Tampa Campus Master Plan and will be LEED Silver. Educational Plant Survey Recommendation number 3.3

# CIP-3 B - PROJECT DESCRIPTION:

<table>
<thead>
<tr>
<th>Facility/Space</th>
<th>Net Area (GSF)</th>
<th>Gross Area (GSF)</th>
<th>Unit Cost</th>
<th>Construction</th>
<th>Assumed</th>
<th>Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classrooms</td>
<td>4,000</td>
<td>6,650</td>
<td>1.65</td>
<td>6,600</td>
<td>338</td>
<td>2,220.04</td>
</tr>
<tr>
<td>Teaching Lab</td>
<td>10,000</td>
<td>16,500</td>
<td>1.65</td>
<td>16,500</td>
<td>364</td>
<td>6,006.16</td>
</tr>
<tr>
<td>Study</td>
<td>16,000</td>
<td>26,400</td>
<td>1.65</td>
<td>26,400</td>
<td>327</td>
<td>8,638.72</td>
</tr>
<tr>
<td>Research Lab</td>
<td>69,979</td>
<td>115,465</td>
<td>1.65</td>
<td>115,465</td>
<td>433</td>
<td>50,020.74</td>
</tr>
<tr>
<td>Office</td>
<td>5,000</td>
<td>8,250</td>
<td>1.65</td>
<td>8,250</td>
<td>339</td>
<td>2,798.15</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>110,979</strong></td>
<td><strong>188,215</strong></td>
<td><strong>1.65</strong></td>
<td><strong>188,215</strong></td>
<td><strong>399,339</strong></td>
<td><strong>71,783,808</strong></td>
</tr>
</tbody>
</table>

*Apply Unit Cost to total GSF based on primary space type*

**Remodeling/Renovation**
- Inflation 3%
- Total Construction - New & Rem./Renov. $2,090,791
- Total 71,783,808

# CIP-3 C - SCHEDULE OF PROJECT COMPONENTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Estimated Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. BASIC CONSTRUCTION COSTS</td>
<td></td>
</tr>
<tr>
<td>a. Construction Cost (from above)</td>
<td>71,783,806</td>
</tr>
<tr>
<td>b. Add/Extraordinary Constr. Costs</td>
<td>0</td>
</tr>
<tr>
<td>c. Environmental Impacts/Mitigation</td>
<td>0</td>
</tr>
<tr>
<td>d. Site Preparation</td>
<td>40,000</td>
</tr>
<tr>
<td>e. Landscape/ Irrigation</td>
<td>125,000</td>
</tr>
<tr>
<td>f. Plaza/Walks</td>
<td>178,000</td>
</tr>
<tr>
<td>g. Roadway Improvements</td>
<td>625,000</td>
</tr>
<tr>
<td>h. Parking</td>
<td>0</td>
</tr>
<tr>
<td>i. Telecommunication</td>
<td>300,000</td>
</tr>
<tr>
<td>j. Electrical Service</td>
<td>250,000</td>
</tr>
<tr>
<td>k. Electrical Utilities Impact</td>
<td>525,200</td>
</tr>
<tr>
<td>l. Water Distribution - Potable &amp; Irrigation</td>
<td>50,000</td>
</tr>
<tr>
<td>m. Sanitary Sewer System</td>
<td>20,000</td>
</tr>
<tr>
<td>n. Chilled Water tie-ins and Hot Water systems</td>
<td>400,000</td>
</tr>
<tr>
<td>o. Chilled Water Distribution</td>
<td>500,000</td>
</tr>
<tr>
<td>p. Chilled Water Imp. Fee</td>
<td>2,117,901</td>
</tr>
<tr>
<td>q. Storm Water System</td>
<td>420,000</td>
</tr>
<tr>
<td>r. Security System</td>
<td>300,000</td>
</tr>
<tr>
<td>s. Energy Efficient Equipment</td>
<td>150,000</td>
</tr>
<tr>
<td>t. Emergency Generator</td>
<td>625,000</td>
</tr>
<tr>
<td>u. UPS Units</td>
<td>350,000</td>
</tr>
<tr>
<td>v. Hurricane Hardening</td>
<td>1,107,943</td>
</tr>
<tr>
<td><strong>Total Construction Costs</strong></td>
<td>$71,783,806</td>
</tr>
</tbody>
</table>

| 2. OTHER PROJECT COSTS         |                 |
| a. Land/Existing facility acquisition | 0               |
| b. Professional Fees           | 10,382,821      |
| c. Fire Marshal Fees           | 199,670         |
| d. Inspection Services         | 798,679         |
| e. Insurance Consultant        | 47,921          |
| f. Surveys & Tests             | 199,670         |
| g. Permit/Impact/Environmental Fees | 399,339         |
| h. Air mw                        | 100,000         |
| i. Moveable Furnishings & Equipment | 4,199,150       |
| j. Project Contingency         | 3,993,393       |
| **Total - Other Project Costs** | $20,320,651     |

**ALL COSTS** $99,188,503

**Fundraising** $49,811,497

**TOTAL** $150,000,000
CIP-3 A - NARRATIVE DESCRIPTION:
This project inclusion is identified in section 4.5.2 future land acquisition in the 2015-2025 USFSP Campus Master Plan Update. This has been adopted by the USF Board of Trustees in December 2015 and will respond to the USFSP Strategic Plan goals of 10,000 students in 10 years and future program growth objectives including up to 20 new majors over the next 5 years. The facility will also serve to further USF St. Petersburg’s pursuit of additional research initiatives in conjunction with the USF system’s pursuit of preeminent research opportunities.

Bayboro Station is an existing 3-story facility located on the southern end of the USF St. Petersburg campus. This facility is 81,000 gross square feet and has over four acres of land. The top floor has been leased by USFSP in the past for classroom and faculty office space, but has since been vacated.

Purchasing this facility will allow USF St. Petersburg to expand STEM, research and related academic programs to students. There is a high demand for these academic programs from our regional employers.

A USF St. Petersburg Campus Master Plan Amendment included the proposed property acquisition area into the Campus Master Plan. EPS is pending.

CIP-3, B - PROJECT DESCRIPTION
Space Detail for Remodeling Projects

<table>
<thead>
<tr>
<th>Facility/Space Type</th>
<th>Net Area Gross (NASF)</th>
<th>Gross Area Conversion</th>
<th>Unit Cost (Cost/GSF)*</th>
<th>Construction Assumed Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Remodeling/Renovation</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td><strong>Total Construction - New &amp; Rem./Renov.</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

*Apply Unit Cost to total GSF based on primary space type

CIP-3, C - SCHEDULE OF PROJECT COMPONENTS

<table>
<thead>
<tr>
<th>Estimated Costs</th>
<th>Funded to</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Funded &amp; In CIP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. BASIC CONSTRUCTION COSTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Construction Cost (from above)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>b. Addl/Extraordinary Const. Costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>c. Site Preparation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>d. Landscape/irrigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>e. Plaza/Walks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>f. Roadway Improvements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>g. Parking spaces</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>h. Telecommunication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>i. Electrical Service</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>j. Water Distribution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>k. Sanitary Sewer System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>l. Chilled Water System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>m. Storm Water System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>n. Energy Efficient Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Construction Costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**ALL COSTS** | 1+2 | 18,000,000 | 0 | 0 | 0 | 0 | 18,000,000 |
Agenda item: FL 117

USF Board of Trustees
June 6, 2019

Issue: USF Research Park Mixed Use Lab and Office Facility Project

Proposed action: Authorize Issuance of Debt by USF Financing Corporation and Request Approval by the Florida Board of Governors

Executive Summary:

The USF Financing Corporation (USFFC) proposes to construct the USF Research Park Mixed Use Lab and Office Project (the “Project”). The Project consists of a 3-story, 120,000 square foot research laboratory and office facility with retail and dining amenities. Project design is expected to commence in October 2019 and the Project is expected to be complete in January 2021. The Project will be located near the southeastern corner of the USF Research Park on the NE corner of Spectrum Blvd and Fowler Avenue. The Project is included on the USF Research Foundation (USFRF) master plan. The Project is not required to be on the University’s master plan. The Project addresses projected demand for laboratory and office space.

Total Project costs are expected to be $42,000,000, which includes $27,000,000 of design/construction costs for the core and shell facility; $10,000,000 of tenant improvements; $2,400,000 in capitalized interest; a $2,400,000 debt service reserve; and $112,000 of costs of issuance.

The Project will be financed by USFFC with proceeds from a fixed rate, taxable revenue bond in an amount not to exceed $27,000,000 (the “Debt”) and a $15,000,000 cash equity contribution from the USFRF. The Debt will be structured with a 20-year final maturity with level debt service at an expected taxable rate of 6.00%. The Debt will be privately placed with a commercial bank that will be selected through a competitive selection process. USFRF will ground lease the facility site to USFFC. USFRF will manage and operate the Project and will make lease payments to USFFC equal to 1.30 times the required debt service payments. Lease payments will be secured by a lien on the rental revenues from three existing, unencumbered, office buildings in the USF Research Park and the Project.

See attached Resolution and appendices.

USFFC is legally authorized to secure the Debt with the revenues to be pledged pursuant to section 1010.62, Florida Statutes. No proceeds of the Debt will be
used to finance operating expenses of the University, USFRF or USFFC. The issuance of the Project Debt is in compliance with the Debt Management Guidelines adopted by the Florida Board of Governors on April 27, 2006, as subsequently amended, the USF Board of Trustees Debt Management Policy, and applicable law.

**Financial Impact:**

A demand study performed by HR&A Advisors, Inc. determined that demand for office and laboratory space at the USF Research Park is currently unmet in the market. Sources of demand are linked to the University’s economic development objectives and have grown as the University has invested in Tampa’s research programs and enterprises. With assurances that there is demand for lab and office space at the USF Research Park, the University is in a position where it can develop a mixture of tenants for the Project to support its institutional and economic development goals.

The Project will enhance the University’s research and economic development missions by concentrating on tenants in market sectors that align with the University’s Research Strategic Plan focus areas.

The Project is projected to produce a debt service coverage ratio of 1.49x in 2021-22, the first full year of operations and debt service, an internal rate of return estimated at 7.5%, a net present value of $7.9 million, and will make a positive annual financial contribution to the University.

---

**Strategic Goal(s) Item Supports:** Goal 4: Sound Financial Management

**Committee Review Date:** May 14, 2019

**Supporting Documentation Online (please circle):** Yes  No

- Presentation
- BOT Authorizing Resolution
- Demand Study
- Project Summary
- Draw Schedule
- Sources and Uses of Funds
- Debt Service Schedule
- Description of Security
- Historical and Projected Revenues and Debt Service Coverage
- Negotiated Sale Analysis

**USF System or Institution specific:** USF System

**Prepared by:** Fell L. Stubbs, University Treasurer, (813) 974-3298
USF Research Park Lab and Office Project

Presentation to the Finance Committee
May 14, 2019
Today’s Objectives

- Overview of project
- Description of the financing
- Sources / Uses
- Mitigating our risks
- Review of Coverage / Backing
- Path forward
Project Overview

Planned Expansion

- 120,000 SF office and lab space
- Fowler frontage
- Defines the physical approach to the University and Research Park from I-275
- Flexibility for long-term marketability and economic viability
- Expansion is anticipated in the Research Park DRI* and Master Plan
- Project Cost: $37 million

*DRI = Development of Regional Impact

Project was presented to finance committee at February meeting.
Why? The Unmet Need *

<table>
<thead>
<tr>
<th>Inst.</th>
<th>% Needs Met</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CLASSROOM</td>
</tr>
<tr>
<td>FPU</td>
<td>50%</td>
</tr>
<tr>
<td>FIU</td>
<td>71%</td>
</tr>
<tr>
<td>USF</td>
<td>74%</td>
</tr>
<tr>
<td>UCF</td>
<td>74%</td>
</tr>
<tr>
<td>UF</td>
<td>84%</td>
</tr>
<tr>
<td>UNF</td>
<td>90%</td>
</tr>
<tr>
<td>FAU</td>
<td>91%</td>
</tr>
<tr>
<td>FGCU</td>
<td>93%</td>
</tr>
<tr>
<td>FSU</td>
<td>99%</td>
</tr>
<tr>
<td>UWF</td>
<td>111%</td>
</tr>
<tr>
<td>FAMU</td>
<td>118%</td>
</tr>
<tr>
<td>NCF</td>
<td>189%</td>
</tr>
</tbody>
</table>

This table is a side by side comparison of space needs met, in percentage terms, using current and proposed space formula factors.

Per this space needs analysis by BOG, USF has:

36%

Of its minimum required research lab space.

* Chart Source: BOG Staff – February 6, 2019
Why? “Aged Out” Lab Spaces

Mechanical systems (installed 1992) have exceeded standard life span of 20 to 25 years.

Hydronic heating piping and valves system has had numerous failures and leaks.

Images – BSC Labs
Successful Debt Structuring

- Debt Issued by USF Financing Corp
- $27 million, taxable, fixed rate bonds
- Private placement
- Financing meets all BOG debt management guidelines
- RFP issued for placement, 3 responses received
- No restrictive covenants
## Sources / Uses of Funds

(amounts in thousands)

<table>
<thead>
<tr>
<th>SOURCES OF FUNDS</th>
<th>AMOUNT</th>
<th>USES OF FUNDS</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond proceeds</td>
<td>$27,000</td>
<td>Core / Shell / Design *</td>
<td>$27,038</td>
</tr>
<tr>
<td>Research Foundation equity contribution</td>
<td>15,000</td>
<td>Tenant improvements</td>
<td>10,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Debt service reserve</td>
<td>2,420</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Capitalized interest</td>
<td>2,430</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Costs of issuance</td>
<td>112</td>
</tr>
<tr>
<td><strong>Total Sources</strong></td>
<td>$42,000</td>
<td><strong>Total Uses</strong></td>
<td>$42,000</td>
</tr>
</tbody>
</table>


Mitigating Our Risks

- Supported by demand study
- Good equity infusion
- Funded debt reserve
- Integrated construction / design team
- GMP Fixed Day One
- Partnering with a national broker
- Strong revenue backing
Strong Coverage and Backing

• Research Park income at $3 million
• Debt coverage of 1.49x in 20 / 21
• Conservative assumptions:
  • Coverage works at 6% (current est. market 4.3% to 4.6%)
  • Estimates a five year lease-up
• Overall USF impact (after issuance):
  • 1.4% debt service / op expense (Aa2 peers 4.2%)
  • 2.4x cash and investments / debt (Aa2 peers 1.2x)
# Project Timeline

<table>
<thead>
<tr>
<th>Activity</th>
<th>Targeted Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation of project to BOT for information</td>
<td>February 12, 2019</td>
</tr>
<tr>
<td>Approval by USF Research Foundation Board</td>
<td>April 23, 2019</td>
</tr>
<tr>
<td>Approval by USF Facilities Corporation Board</td>
<td>April 30, 2019</td>
</tr>
<tr>
<td>Approval by USF Board of Trustees Finance Committee</td>
<td>May 14, 2019</td>
</tr>
<tr>
<td>Approval by USF Board of Trustees</td>
<td>June 6, 2019</td>
</tr>
<tr>
<td>Preparation of Board of Governors and Division of Bond Finance Materials</td>
<td>Now through July 31</td>
</tr>
<tr>
<td>Approval by Board of Governors</td>
<td>October 30, 2019</td>
</tr>
<tr>
<td>Start of Design</td>
<td>October 2019</td>
</tr>
<tr>
<td>Completion of Project</td>
<td>January 2021</td>
</tr>
</tbody>
</table>
Recognition of the Team
Requested Action

Approve resolution authorizing the issuance of $27 million of debt to fund the USF Research Park Laboratory and Office Project
A RESOLUTION AUTHORIZING THE ISSUANCE OF DEBT AND REQUESTING THE FLORIDA BOARD OF GOVERNORS TO APPROVE THE ISSUANCE OF SUCH DEBT TO FINANCE A PORTION OF THE COSTS OF THE CONSTRUCTION OF THE MIXED USE LAB AND OFFICE PROJECT TO BE LOCATED IN THE USF RESEARCH PARK, TAMPA, FLORIDA, AND PROVIDING AN EFFECTIVE DATE.

BE IT RESOLVED BY THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES:

Section 1. The University of South Florida Board of Trustees (the "Board of Trustees") of the University of South Florida (the "University") hereby authorizes the issuance of debt by the USF Financing Corporation (the “DSO”) and requests the Florida Board of Governors to approve the issuance of debt in an amount not to exceed $27,000,000 (the "Debt") for the purpose of financing a portion of the costs of the development of a mixed use laboratory and office building to be located in the USF Research Park, Tampa, Florida on a site owned by the USF Research Foundation (the “Foundation”) adjacent to the Tampa campus of the University. The Foundation is the Owner/Operator of the USF Research Park.

Section 2. The Project will consist of a 3-story, approximately 120,000 square foot research laboratory and office facility with retail and dining amenities. The Project is not required to be on the University’s Master Plan. Construction of the Project is expected to begin in January 2020 and is expected to be completed by January 2021. The Foundation will contribute $15,000,000 in cash equity to the costs of the Project (the “Contribution”). Proceeds of the Debt and the Contribution are anticipated to be sufficient to complete the construction of the Project without the use of additional funds. Legislative approval of the Project has been obtained pursuant to Section 1010.62(7)(a), Florida Statutes. No proceeds of the Debt will be used to finance operating expenses of the University or the DSO.

Section 3. In consideration of the DSO incurring the Debt necessary to finance a portion of the costs of the Project, the Foundation will ground sublease the Project site to the DSO which will finance and construct the building and master lease the building to the Foundation. The Foundation will manage and operate the Project and will agree to make lease payments to the DSO equal to 1.30 times the required debt service payments on the Debt. The DSO will secure its payment obligations to the bank making the loan to it with lease payments received from the Foundation. Payments made by the Foundation will be secured by a lien on the rental revenues from three existing, unencumbered, office buildings in the USF Research Park and the Project, as more particularly described in item (f) of Appendix A attached hereto. The DSO is legally authorized to secure the Debt with the revenues to be pledged pursuant to section 1010.62, Florida Statutes. The University is also committed to ensuring that sufficient revenues will be generated to fulfill the DSO’s obligations with respect to the Debt.

Section 4. The Debt will bear interest at a fixed rate and will mature not more than 20 years after issuance, including any extensions or renewals thereof. The Project has an estimated useful life that exceeds 40 years, which is beyond the anticipated final maturity of the Debt. The
Debt will bear interest at a taxable rate.

Section 5. The issuance of the Debt on a taxable basis is in the best interests of the DSO due to the high level of for-profit tenants to be located at the Project.

Section 6. The Debt will be sold through a private placement with a bank. A private placement is necessary to reduce the cost of financing by entering into a loan agreement with a bank versus issuing bonds in the public market. An analysis showing that a private placement is desirable and in the best interest of the DSO is described in item (h) of Appendix A attached hereto. The bank will be selected through a competitive selection process.

Section 7. The Board of Trustees will comply, and will require the DSO to comply, with all requirements of federal and state law relating to the Debt. Because the Debt is a bank loan, the continuing secondary market disclosure of information does not apply to the Debt, however the bank will receive annual financial information related to the Project.

Section 8. The Chair and Executive Director of the DSO and other authorized representatives of the DSO and the Board of Trustees are hereby authorized to take all actions and steps, to execute all instruments, documents, and contracts, including, but not limited to, executing and delivering the ground sublease and master lease agreements described herein, selecting the bank, and to take all other actions as they may deem necessary or desirable, in connection with the execution, sale and delivery of the Debt.

Section 9. In making the determination to finance the Project, the Board of Trustees have reviewed the information attached to Appendix A and finds that the issuance of the Debt is in compliance with the Debt Management Guidelines adopted by the Board of Governors on April 27, 2006, as subsequently amended by the Board of Governors, the University’s debt management policy, and applicable law.

Section 10. EFFECTIVE DATE. This Resolution shall become effective immediately upon its adoption.

ADOPTED this 6th day of June, 2019.
Appendix A

The following documents have been reviewed by the Board of Trustees prior to the execution of this Resolution:

a. The demand study;
b. The project summary;
c. A draw schedule for the project;
d. Sources and uses of funds for the project;
e. An estimated debt service schedule;
f. A description of the security supporting repayment and the lien position the debt will have on that security;
g. A five year history, if available, and a five year projection, of the pledged revenues and the debt service coverage; and
h. The negotiated sale analysis.
Report Overview and Executive Summary

Background
Economic Overview
Market Trends
Programmatic Recommendations
Financial Analysis
Recommendations and Next Steps
HR&A Advisors conducted a demand study to understand the feasibility of adding new office and lab space to the USF Research Park campus.

MANDATE
The University of South Florida Research Foundation (USFRF) supports economic development in the Tampa Bay region by training students for productive careers, by supporting research and technology transfer, and by providing information and scholarly resources needed by the community. Ultimately, USFRF represents the University’s link between their institutional resources and the growing innovation economy, especially for the life sciences and biotech industries.

To further this mission, USFRF plans to build out the rest of its 112-acre site to create a world class innovation and research hub. The next step in its expansion process is determining whether the existing 400,000 SF campus can support another lab or office building in the short term.

HR&A was contracted to conduct a market analysis of lab, office, and supporting amenity space for USF’s market, before forming programmatic recommendations on what an additional building might include. HR&A’s study concluded with a high-level financial feasibility analysis of the programs and a set of sensitivity tests to inform the USF Research Foundation’s decision.

Market Analysis Methodology
This study is critically informed by a synthesis of qualitative and quantitative findings. HR&A supplemented data analysis with stakeholder outreach, including in-person interviews on the USFRF campus as well as follow-up phone conversations. HR&A engaged the following stakeholders:

- **University stakeholders, faculty, and USFRF leadership**, including department heads, executive staff, and the heads of departmental institutes;
- **Representatives from local economic development entities**, including the Tampa-Hillsborough EDC and IP Tampa;
- **Interest groups**, including BioFlorida and Buchanan, Ingersoll & Rooney; and
- **Real estate developers and brokers** active in the Tampa market.

Source: USFRF Mission Statement
The expansion of the Research Park represents a crucial next step in the accomplishment of the Research Foundation's larger goals.

OBJECTIVES
USF Research Park has the opportunity to bring together USF's world class research capabilities, medical institutions including Morsani Medical College, Moffitt Cancer Center, Shriner's Hospital, the Veteran's Administration Hospital, and the business community of Tampa to create a destination for academic-industry partnerships and cutting-edge research.

Already a national leader in technology transfer, USFRF must determine how to best use its resources, including an ample supply of real estate and strong research funding streams, to grow the next generation of life sciences and tech companies.

USF has the opportunity to strengthen its life sciences and tech ecosystem by providing spaces for new startups while also offering lab space to established corporations, so they can harness their professional expertise. By creating a multi-tenant setting, USFRF can create an environment that facilitates the transdisciplinary conversations to further spur innovation.

Perspectives on University Demand for Innovation Space

Stakeholders who informed HR&A's understanding of what is desired for the Research Park include:

- Paul Sanberg, USF Research Foundation
- Rebecca Puig, USF Research & Innovation
- David Lechner, USF Business & Financial Strategy
- Valerie McDevitt, USF Technology Transfer Office
- Michael Bloom, USF Office of Corporate Partnerships
- Morgan Holmes, USF Office of Corporate Partnerships
- Steve Liggett, USF College of Health
- Sri Sridharan, FL Center for Cybersecurity
- Sudeep Sarkar, USF Department of Computer Science
- Jose Zayas-Castro, USF College of Engineering
HR&A’s market analysis studied the demand drivers for lab and office space across comparable and competitive geographies to assess the potential for the new facility.

<table>
<thead>
<tr>
<th>Regional Geography:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tampa-St Pete-Clearwater MSA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population: 3.1M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jobs: 1.3M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comparison Geography:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hillsborough County</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population: 1.4M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jobs: 701,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Focus Geography:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>North I-75 Corridor</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population: 330K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jobs: 190,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USF Campus</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population: 41K Students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jobs: 14,560</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Demand for space at the Research Park is intimately related to the economic climates of surrounding geographies. Conditions in the North I-75 Corridor most closely reflect development trends seen around campus, while trends at the county and MSA level informed macroeconomic elements of this demand study. In terms of expectations for tenanting, three sources of demand were investigated. First, **historical development trends** were indicative of market expectations of growth. Secondly, **job growth** in sectors aligned with USFRF’s research activities informed the demand for research space within the context of the aforementioned development trends. Finally, **growth within the University** was examined to determine the endogenous demand for space at USF.

Source: ESRI, compilation of ACS 2012-2016; USF Facts & Statistics
Demand for additional office and lab space at the Research Park will derive from three categories, each showing strong indicators for demand currently unmet in the market.

<table>
<thead>
<tr>
<th>Historical and Projected Development Trends</th>
<th>Growth in Aligned Industries</th>
<th>Internal Demand at USF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4.5M SF Office</strong></td>
<td><strong>7,170 jobs</strong></td>
<td><strong>15%</strong></td>
</tr>
<tr>
<td>Office absorption in Hillsborough County, past five years</td>
<td>In applicable Life Sciences and Tech industries by 2023</td>
<td>Annual research funding growth from 2013-2017</td>
</tr>
<tr>
<td><strong>31%</strong></td>
<td><strong>2.1M SF</strong></td>
<td><strong>253k SF</strong></td>
</tr>
<tr>
<td>Increase in Class A rents in Hillsborough County, past five years</td>
<td>Additional space demanded by Life Sciences &amp; Tech firms by 2023</td>
<td>Demanded by new faculty hires by 2022</td>
</tr>
<tr>
<td><strong>290k SF</strong></td>
<td><strong>1.2M SF</strong></td>
<td><strong>35k SF</strong></td>
</tr>
<tr>
<td>Average annual leasing turnover for lab users in Tampa MSA</td>
<td>Unmet demand for Life Science and Tech space</td>
<td>Unmet private sector demand from corporate partnerships</td>
</tr>
</tbody>
</table>

The Research Park should consider different sources of demand when determining the mixture of lab and office types that the new facility might support. Many of these sources of demand are intricately linked with USF’s own economic development objectives and have grown as the University has invested in the Tampa research ecosystem. As one of the leading forces behind Tampa’s transition into a life sciences and tech hub, USF is now set to reap the rewards of earlier investments in the community by tapping into pent-up demand for research space on campus.
Based on strong demonstrations of demand, HR&A developed three programmatic scenarios, each of which has the potential to fulfill different institutional goals for USFRF.

<table>
<thead>
<tr>
<th>Tenant Ratio</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larger Firm</td>
<td>22k SF (~1 firm)</td>
<td>44k SF (~2 firms)</td>
<td>65k SF (~3 firms)</td>
</tr>
<tr>
<td>Start-Up</td>
<td>37k SF (~45 firms)</td>
<td>37k SF (~45 firms)</td>
<td>41k SF (~50 firms)</td>
</tr>
<tr>
<td>Institutional</td>
<td>61k SF (~58 PI’s)</td>
<td>39k SF (~38 PI’s)</td>
<td>14k SF (~13 PI’s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>84k SF (70% total)</td>
<td>72k SF (60% total)</td>
<td>60k SF (50% total)</td>
</tr>
<tr>
<td>Dry Lab</td>
<td>18k SF (15% total)</td>
<td>24k SF (20% total)</td>
<td>30k SF (25% total)</td>
</tr>
<tr>
<td>Wet Lab</td>
<td>18k SF (15% total)</td>
<td>24k SF (20% total)</td>
<td>30k SF (25% total)</td>
</tr>
</tbody>
</table>

With strong assurances that there is demand for lab and office space at the Research Park, USF is in an enviable position from which it can curate a mixture of tenants to support its institutional and economic development goals. Research parks function at the highest level when they are driven by compelling programs, rather than by real estate decisions alone. The programs suggested in this study intend to encourage USFRF to think strategically about how it can leverage Research Park tenants to achieve its larger goals. Depending on USFRF's preferred programmatic mix as well as its ability to recruit private-sector tenants, the three options span a set of scenarios depicting different proportions of larger tenants, balanced out by start ups and institutional tenants. Each of the three scenarios has different allocations of office, dry lab, and wet lab space, depending on the facility preferences of each tenant type.
Report Overview and Executive Summary

Background

Economic Overview
Market Trends
Programmatic Recommendations
Financial Analysis
Recommendations and Next Steps
USF is at the heart of a thriving cluster of life sciences and medical institutions, with more than 30,000 workers in the “eds & meds” industries employed around campus.

Recent expansions from four major hospitals have established the area as one of Tampa’s leading life sciences cluster. The growth of these institutions has attracted significant federal research funding that has encouraged a vibrant ecosystem with a robust start-up scene to enjoy a symbiotic relationship with these major players.

Source: James A Haley VA; Moffitt Cancer Center; Shriner’s Children’s Hospital
Since its founding in 1956, USF has rapidly evolved into the leading research institution for the Tampa Bay region.

$475M
in Federal Research Funding (2017)

#10 Nationwide
for tech transfer among universities

117
in US Patents Granted in 2017-2018

The rapid development of USF’s research capabilities has spurred economic activity in the region, as the area surrounding campus has become a hub for life sciences and tech industries. With the backing of the university, over 113 US patents were granted to university-related entities in 2013-14, better than all but 9 institutions in the country. Supporting both small and large businesses in the creation of new technology and ideas, USF supported more than 5,900 jobs and generated $1B in economic activity throughout the Tampa region by leveraging its $475M of federal research funding in 2017.

Source: USF Research Strategic Plan, 2017-2021; USFRI Points of Pride
USF has benefited from a steady stream of federal research dollars, as well as a growing amount of private research funding.

USF Research Funding, FY 2005-2017

USF has grown its research initiatives considerably, ranking as the **fifth-fastest growing research institution in the US** from 2000-2010 and **expanding by 15% between FY 2013-2017**. This growth has raised USF to the top tier of research institutions in America, ranking 29th among all public universities nationwide. As these research programs have strengthened, they have also diversified their funding sources. In 2005, only 53% of USF’s funding derived from non-federal sources, while in 2017, **69% came from non-federal sources**.

Source: USF Annual Report of Research Activities, FY 2017
The growth of USF’s research funding is largely tied to medical research, with the College of Engineering being the next largest recipient of funding.

The majority of research funding garnered by USF is targeted for USF Health, and in particular the Morsani College of Medicine. While this department has seen substantial growth of \(+29\%\) over the past five years, not all programs at USF have experienced similar growth. Over the same period, the College of Engineering saw funding decrease by \(-19\%\).

Source: USF Annual Report of Research Activities, FY 2017
USF Research Park sits on the southern edge of campus, allowing researchers to interface with both on-campus academics and private businesses located nearby.

With a **112-acre site**, the USF Research Park has ample room to expand and can leverage easy access to major interstates as well as a controlled campus environment. At the same time, the Research Park has expressed interest in continuing to expand its connections with university resources by **building stronger connections with nearby academic buildings** like the College of Engineering. A 2009 update to the Research Park’s master plan noted that a maximum of 2.3 million gross square feet might be developable across the Park. Moving forward, the Research Park may consider expanding with additional entitlements to allow for denser development patterns that are seen in leading urban research parks throughout the country.
Demand from within the Research Park has filled much of the space, and a successful incubator program may be a source of demand for additional space moving forward.

23 life sciences firms
14,100 SF tenanted

11 tech firms
8,900 SF tenanted

6 business services firms
3,700 SF tenanted

USFRF currently provides almost 37,000 SF of space, including 10,000 SF of amenities and communal space, to 40 small businesses and start-ups through USF Connect. This incubator serves as a crucial piece in bringing institutional research to market. Amenities and shared lab space allow students and professors to take advantage of a quality creative environment that would otherwise not be available to small-scale operations. The incubator’s wide range of rents allow a variety of small businesses to take the next step toward market-readiness.

Source: USF Research Foundation
Nearby vacancies present intriguing opportunities for the large-scale redevelopment of Fowler Avenue that could further enhance USFRF's attractiveness to new research activity.

Two key sites directly adjacent to the main campus present major opportunities for redevelopment. As MOSI vacates for a new location downtown, the large purpose-built building could attract an innovative reuse proposal that can leverage the University's proximity. The University Mall’s proposed redevelopment transitioning from under-utilized retail to a mixed-use urban-neighborhood format suggests ambitious plans for the Fowler Ave corridor. Currently entitled for 3.5M square feet of mixed used development, developers currently are currently applying for 7.8M square feet of entitlements, anchored by office and professional uses, with new hotel, restaurant, fitness, and recreation amenities. The proposed redevelopment plan could be transformative for the area, if the market is able to absorb such scale. These efforts, and others to revitalize the Fowler Ave corridor, have been backed by innovation-oriented economic development advocates like IP Tampa, which reports that over 2.1M square feet of new construction have been permitted along the corridor since 2015.

Source: Tampa Bay Times, Oct 2017
Report Overview and Executive Summary

Background

**Economic Overview**

*Market Trends*

*Programmatic Recommendations*

*Financial Analysis*

*Recommendations and Next Steps*
HR&A’s market analysis focused on the North I-75 Corridor surrounding USF and is informed by additional analysis of Hillsborough County and the Tampa Bay MSA.

The growth of the USF-Tampa campus is reflective of the overall growth of the Tampa Bay region in recent years. Of Tampa Bay’s three major cities, Tampa has historically been a center of industry and commerce, as opposed to the tourism-focused economies of Clearwater and St. Petersburg. The USF Research Park campus lies to the north of Tampa’s downtown core, straddling the City’s border with unincorporated Hillsborough County and in the middle of the North I-75 Corridor.

Source: ESRI, compilation of ACS 2012-2016; USF Facts & Statistics
The population of the N I-75 corridor has grown faster than the MSA, and is projected to continue to outpace the region, gaining another 39k residents over the next ten years.

**Population Growth Rate, 2001-2018 & Projected Growth Rate, 2018-2028**

Between 2001 and 2018, the N I-75 Corridor grew at an annual rate of 1.9%, adding 100,000 new residents. In comparison, Hillsborough County grew by 2.0% per year, while the entire Tampa Bay MSA grew by 1.5% per year, reaching a total population of 3.1 million residents in 2018. Overall in 2018, the population of the N I-75 corridor accounted for 12% of the region’s total population. Over the next ten years this growth is projected to slow, with Hillsborough County growing by an average rate of 0.9% through 2028, when the total county population is projected to reach 1.6 million.

Source: ESRI Business Analyst
The job market has recovered since the Great Recession, with all three geographies having returned to peak employment and projected to grow over the next ten years.

Between 2001 and 2018, the N I-75 Corridor saw job growth of 0.6% annually, adding nearly 18,000 new jobs. In comparison, Hillsborough County grew by 0.7% annually, while the entire Tampa Bay MSA grew by 0.6%, reaching 1.3 million jobs in 2018. Overall in 2018, employment in the N I-75 Corridor accounted for 15% of the region's total. Tampa Bay gained 20,000 jobs in 2017; this resulted in an increase of 1.6% from 2016 to 2017. Job growth is projected to continue at moderate paces, with Hillsborough County to continue growing at an average rate of 0.9% annually through 2028, when total employment in the county is projected to reach 770k.

Source: EMSI
Hillsborough County has seen its strongest growth in the education and health services industries, with other office-using sectors declining or experiencing sluggish growth.

The Hillsborough County economy has evolved over the past two decades, experiencing strong growth in its “Eds and Meds” industries. The growth of these higher-earning, innovation-oriented industries at the County level has supported the growth of the life sciences and medical hub around USF’s own campus. However, as with much of Florida, lower-paying tourism industries have also grown during this period, while growth in what has traditionally been Hillsborough’s largest sector, Professional & Business Services, has declined in recent years.

Source: EMSI; Industries sorted by NAICS super sectors
Hillsborough County’s base industries are predicted to grow, with three high-paying sectors leading growth in terms of absolute jobs.

### Job Growth Projections by Industry in Hillsborough County, 2018-2023

| Industry                          | Growth
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Information</td>
<td>-8%</td>
</tr>
<tr>
<td>-1.2k jobs</td>
<td></td>
</tr>
<tr>
<td>Professional &amp; Business Services</td>
<td>+7.5k</td>
</tr>
<tr>
<td>+2.6k jobs</td>
<td></td>
</tr>
<tr>
<td>Goods-Producing Industries</td>
<td>+1.5k</td>
</tr>
<tr>
<td>+1.4k jobs</td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>+5.0k</td>
</tr>
<tr>
<td>Trade, Transportation, &amp; Utilities</td>
<td>+7.4k</td>
</tr>
<tr>
<td>Other Services</td>
<td></td>
</tr>
<tr>
<td>Financial Activities</td>
<td></td>
</tr>
<tr>
<td>+5.3k jobs</td>
<td></td>
</tr>
<tr>
<td>Leisure &amp; Hospitality</td>
<td>+11.7k</td>
</tr>
<tr>
<td>Education &amp; Health Services</td>
<td></td>
</tr>
<tr>
<td>+13%</td>
<td></td>
</tr>
</tbody>
</table>

In the next five years, Hillsborough County is expected to gain as many as **26,600 jobs** in the high-paying sectors of **Education & Health, Financial Activities, and Professional & Business Services**. The North I-75 Corridor alone is projected to gain up to 7,500 jobs in those sectors, including **4,000 Eds & Meds jobs**. Overall, job growth projections indicate that there may be substantial demand for office and lab product in the mid-term.

Source: EMSI; Industries sorted by NAICS super sectors
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

- Historical and Projected Development Trends
- Growth in Aligned Industries
- Internal Demand at USF
- Summary Office and Lab Demand
- Supporting Amenities

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
HR&A analyzed three different sources of demand as it sized the space needs of potential tenants of a new building at the Research Park.

1) Historical Absorption in the Regional Market
By analyzing historical development trends and the pipeline of development projects, HR&A determined how new development is currently meeting demand for office and lab space. Expiring leases were analyzed to identify the degree of activity related to lease turnover. Additionally, this analysis was informed by short case studies of the quality and types of spaces that may compete with the new USFRF facility.

2) Projected Growth in Aligned Industries
HR&A assessed regional growth in industries that are aligned with current activities at the Research Park. Namely, these industries include segments of the life sciences and technology fields. Firms in these industries may spur additional collaboration with start-ups or university researchers, many of which are engaged in medical or tech activities.

3) Internal Demand at USF
HR&A determined a range of demand for institutionally tenanted space through conversations with department heads and analysis of university space projections. Preferences of the Research Foundation may ultimately determine the optimal mix of University programs with private firms.

Filling Demand
USFRF is in a position to pull tenants in from multiple components of the Tampa market. Depending on preferences for the program and pairings of different types of tenants, USFRF may have the ability to select between tenants from these three fields:

- **Corporate Tenants:** Larger corporate tenants may serve as anchors for the building and provide professional expertise and mentorship for incubator tenants.
- **Start-up Firms:** The USF Connect Incubator may see demand from start-ups grow as the tech and life sciences sectors in Tampa strengthen.
- **Institutional Research:** Additional space in the new building may serve space-constrained elements of USF’s academic departments and research programs.
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

- Historical and Projected Development Trends
- Growth in Aligned Industries
- Internal Demand at USF
- Summary Office and Lab Demand
- Supporting Amenities

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
Development trends for Hillsborough County indicate the office market has recovered from the Recession, with strong absorption in recent years tightening the market.

Office Deliveries, Absorption & Vacancy in Hillsborough Co.

The Hillsborough County office market has rebounded from significant oversupply during the Great Recession. While still far from the level of activity seen in the 2000s, Tampa is experiencing an increase in office absorption that is tightening vacancy rates, with **4.5 million SF of net new absorption over the past five years**. The optimism behind the market is best evidenced by large-scale investments at Water Street, Midtown Tampa, and Armature Works, each of which will create new mixed-use office districts. Growth of the office market reflects the strong job growth in general in Tampa, inducing an **additional 5.2 million SF of planned development** to augment Hillsborough County’s total inventory of 69 million SF.

Source: Costar, Nov 2018
The North I-75 Corridor Office Market has followed County trends, with more volatility, experiencing higher vacancies in the Great Recession, and lower today.

Office Deliveries, Absorption & Vacancy in N I-75 Corridor

Higher peak vacancy, lower vacancy recently, fewer deliveries, and more recent spikes in absorption indicate that the market for the North I-75 Corridor is slightly more volatile than that of Hillsborough County, but on a whole reflects trends seen across the wider area. This submarket contains almost 18 million SF of the total 69 million SF of office space in Hillsborough County (all classes). Of that, Class A office product makes up 7.3 million SF in the N I-75 Corridor and 23.8 million SF in Hillsborough Co. Within the past five years, almost 1.3 million SF of net new absorption occurred in the N I-75 Corridor, while almost 500,000 SF of future development is in the pipeline.

Source: Costar, Nov 2018
Lab rents in the Hillsborough County and N I-75 Corridor Submarkets have lagged the growth of Class A rents, with County Class A space increasing 31% over past five years.

Although Class A rents in the North I-75 Corridor are far exceeded by Class A rents across the larger Hillsborough County area, lab rents in the Corridor have risen above those of Hillsborough County’s in recent years. However, the low lab rents in the market in general, combined with high costs of lab construction, may inhibit the development of additional lab product. The Research Park is uniquely positioned to deal with this constraint in that it already has land available, which may lower total development costs to support the project’s development economics.
Existing Class A office product in Tampa is concentrated in Westshore and Downtown and is able to attract higher rents than near the USF campus.

<table>
<thead>
<tr>
<th>Location</th>
<th>SF Class A</th>
<th>Jobs</th>
<th>Rents (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Tampa</td>
<td>1.6m</td>
<td>113,000</td>
<td>$22.70</td>
</tr>
<tr>
<td>Westshore</td>
<td>8.3m</td>
<td>118,000</td>
<td>$33.30</td>
</tr>
<tr>
<td>South Tampa</td>
<td>188k</td>
<td>51,000</td>
<td>$32.80</td>
</tr>
<tr>
<td>Southeast Hillsborough</td>
<td>0</td>
<td>15,000</td>
<td>$26.70</td>
</tr>
<tr>
<td>Northeast Tampa</td>
<td>4.1m</td>
<td>113,000</td>
<td>$25.60</td>
</tr>
<tr>
<td>Outlying Hillsborough</td>
<td>176k</td>
<td>41,000</td>
<td>$21.00</td>
</tr>
<tr>
<td>Downtown Tampa</td>
<td>6.0m</td>
<td>66,000</td>
<td>$32.90</td>
</tr>
<tr>
<td>East Tampa</td>
<td>3.5m</td>
<td>117,000</td>
<td>$26.70</td>
</tr>
</tbody>
</table>

**USF is one of several competing job centers in Hillsborough County.** While office development has typically been concentrated in suburban-style office park formats throughout the Tampa Bay area, there has been a shift toward mixing uses in an effort to draw in tenants by amenitizing the surrounding environs. Water Street in Downtown Tampa and Midtown Tampa near Westshore are two of the most significant examples of this new trend in office development.

Source: Costar, Nov 2018
Major lab tenants tend to congregate in Westshore or other established office parks while start-up businesses have fewer options for lab-specific space.

New lab product in Tampa is noted by local brokers to be extremely limited. Although there are competing lab clusters, high construction costs and the limited capacity of emerging companies to pay sufficiently high rents has constrained development. Many start-ups seeking lab space cannot afford rents that would justify new construction, while high construction costs discourage speculative lab development. USFRF may have an advantage over private developers, as land costs do not factor in for development and financing may be achieved at lower rates.

Source: Costar, Nov 2018; R&D/Medical uses serve as proxy for lab
Looking ahead, the Hillsborough market is expecting more than 4.6 million SF of Class A office space to be delivered by 2022, but only 400,000 SF of lab space is projected.

Although there is **significant office development in the Tampa Bay region**, especially around the Water Street and Midtown Tampa projects, there is **very limited lab product** in the development pipeline. The Northeast Tamps sub-market adjacent to the USF campus is projecting only 150,000 SF of Class A office and 14,000 SF of R&D/Medical lab space. Considering the rents required to support high-quality development, many start-up companies that USF typically attracts may be locked out of the market for appropriately amenitized lab space.

Source: Costar, Nov 2018; R&D/Medical uses serve as proxy for lab
Over 1.4 million SF of leased lab space rented by 65 different tech and life sciences firms are expected to come up for renewal by 2023 in the Tampa Bay area.

**Lab Lease Expirations (SF) by Year, Hillsborough County**

Demand may also stem from existing firms looking to relocate to higher quality or better value product. As the development pipeline for lab space is constrained by middling rents and higher construction costs, lab supply will likely continue to contract due to the obsolescence of older product. To anchor the project and support the tenanting of USF departments and private start ups, USFRF may look to bring in more established firms who already have a presence in the Tampa area.

Source: JLL, Health Care/Technology Upcoming Expirations (Q3 2018)
There are several successful precedents serving a range of firm sizes located throughout
the Tampa Bay Area that both compete with and compliment the USF Research Park.
Case Study:  
TEC GARAGE

TEC GARAGE is a mixed-use business incubator near downtown St. Pete that incorporates research and entrepreneurship in technology, life sciences, marine sciences and advanced manufacturing.

For $15/day or $125/month, users gain access to shared/private offices, conference rooms, and kitchen.

Key Info

- 20K Square Feet
- 36 Businesses
- $12M Project Cost
- 400 Jobs Created
Case Study:
Lake Nona Life Sciences Incubator

The UCF LIFE SCIENCES INCUBATOR in Orlando is equipped with 7 wet lab spaces, robust infrastructure, strong business support and state-of-the-art shared equipment, all available to the region's most promising life science and biotech startups.

Amenities include private offices, conference rooms and a large fully equipped communal laboratory with shared research instrumentation and autoclave facilities. Rent for each lab is $2,200 - $2,800/month.

Key Info

- $4M Project Cost
- 10K Square Feet
- 7 Wet Labs

USF Research Foundation Demand Study | 34
Case Study: Embarc Collective

The EMBARC COLLECTIVE, slated to open in Downtown Tampa in March 2019, is an upcoming accelerator backed by Water Street developer Jeff Vinik. For a monthly fee, membership will include “support pillars” such as coaching, an on-site recruiting strategist, marketing assistance, a global network of investors, and in-house development offerings.

In addition to private workspaces, it will include facilities for podcasting, collaboration, and gatherings of 250+. A public cafe, outdoor lounge, and lending library are intended to set the space apart. Monthly fees will start at $465 per person per month.
Case Study:
Bristol-Meyers Squibb

At Bristol-Meyers Squibb’s CAPABILITY CENTER, the staff of about 600 work in research and development, IT, human resources and finance supporting the company’s biopharmaceutical business.

The 4-year-old office facility was named one of Tampa Bay’s top workplaces, notching the No. 11 spot among midsized businesses. There are no private offices, as everyone gets an open-air desk. Separate divisions blend together in the open layout office, and staff meetings are followed by social gatherings.

---

Key Info

600 Employees

130K Square Feet

$21M Project Cost
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

- Historical and Projected Development Trends
- **Growth in Aligned Industries**
  - Internal Demand at USF
  - Summary Office and Lab Demand
  - Supporting Amenities

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
HR&A identified five focus areas of the life sciences sector to more specifically inform the demand for lab and office space at the new USFRF facility.

**Breaking Down Anticipated Life Sciences Growth**

The life sciences sector is rapidly growing in Hillsborough County, bringing in more funding, creating new jobs, and demanding more space. HR&A examined national trends and reports to identify different constituents of the “life sciences” sector – that may have unique considerations for the USFRF facility.

**Biopharmaceutical Manufacturing:**
- Medicinal & Botanical Manufacturing
- Pharmaceutical Preparation Manufacturing
- In-Vitro Diagnostic Substance Manufacturing
- Biological Product Manufacturing

**Biopharmaceutical Distribution:**
- Medical, Dental and Hospital Equipment & Supplies Merchant Wholesalers
- Ophthalmic Goods Merchant Wholesalers
- Drugs & Druggists' Sundries Merchant Wholesalers

**Research, Testing, & Medical Laboratories:**
- Testing Laboratories
- Research & Development in Biotechnology
- Research and Development in the Physical, Engineering & Life Sciences
- Medical Laboratories
- Diagnostic Imaging Centers

**Medical Devices & Equipment:**
- Optical Instrument & Lens Manufacturing
- Electromedical & Electrotherapeutic Apparatus Manufacturing
- Analytical Laboratory Instrument Manufacturing
- Irradiation Apparatus Manufacturing
- Surgical & Medical Instrument Manufacturing
- Surgical Appliance & Supplies Manufacturing
- Dental Equipment & Supplies Manufacturing
- Ophthalmic Goods Manufacturing
- Dental Laboratories

**Hospitals:**
- General Medical & Surgical Hospitals
- Psychiatric & Substance Abuse Hospitals
- Specialty Hospitals

*Note: While future growth in this sector would likely be located in adjacent hospital facilities, aligned research activities could occur at USF Research Park’s new facility.

Source: Batelle/BIO and precedent HR&A analysis
Life sciences and hospital employment has grown at a rate of 4-5x faster than overall employment in Hillsborough County.

### Life Sciences Subsectors in Hillsborough County, 2001-2018

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biopharmaceutical Manufacturing</strong></td>
<td>36 jobs</td>
<td>414 jobs</td>
<td>+379 jobs</td>
<td>+1064%</td>
<td>$77,000</td>
</tr>
<tr>
<td><strong>Medical Devices &amp; Equipment</strong></td>
<td>721 jobs</td>
<td>1,598 jobs</td>
<td>+877 jobs</td>
<td>+122%</td>
<td>$71,500</td>
</tr>
<tr>
<td><strong>Biopharmaceutical Distribution</strong></td>
<td>2,011 jobs</td>
<td>2,454 jobs</td>
<td>+443 jobs</td>
<td>+22%</td>
<td>$93,200</td>
</tr>
<tr>
<td><strong>Research, Testing, &amp; Medical Laboratories</strong></td>
<td>3,656 jobs</td>
<td>6,528 jobs</td>
<td>+2,872 jobs</td>
<td>+79%</td>
<td>$66,700</td>
</tr>
<tr>
<td><strong>SUBTOTAL (Lab users):</strong></td>
<td>6,424 jobs</td>
<td>10,994 jobs</td>
<td>+4,570 jobs</td>
<td>+71%</td>
<td><strong>$73,700</strong></td>
</tr>
<tr>
<td>Hospitals</td>
<td>16,371 jobs</td>
<td>25,430 jobs</td>
<td>+9,059 jobs</td>
<td>+55%</td>
<td>$57,000</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>22,795 jobs</td>
<td>36,424 jobs</td>
<td>+13,629 jobs</td>
<td>+60%</td>
<td>$62,000</td>
</tr>
</tbody>
</table>

The high-wage life sciences industry offers an appealing opportunity to bring highly skilled jobs to the area while working hand-in-hand with existing medical institutions. The Life sciences sector has seen strong growth across the board, with sector-wide growth of +60% from 2001-2018, compared to the Hillsborough average for all industries of +13% over that time. While the growth of lower wage Hospital-related jobs is associated with the steady expansion of institutions like Moffitt Cancer Center, Florida Hospital, and Morsani College of Medicine, the exponential growth of higher wage industries like Biopharmaceutical Manufacturing and Medical Device & Equipment product reflect the hotbed of innovative activity that has taken hold in the area over the past two decades.

Source: EMSI Business Analyst
The life sciences cluster is expected to continue its growth over the next five years, aligned with USF’s own efforts to grow research in these areas.

In recent years, the Biopharmaceutical Manufacturing sub-sector, previously non-existent in Hillsborough Co., has grown exponentially, gaining 400 employees since 2015. Although larger, more established life sciences sub-sectors are expected to grow more in absolute terms, innovative sectors like Biopharmaceutical Manufacturing reflect the expansion of research activities within the regional ecosystem into new fields. USFRF’s own goals encourage the growth of these underexplored sectors, and additional research space should be prepared to accommodate the demands of industries that don’t fully exist yet.

Source: EMSI Business Analyst
Up to 379,000 square feet of new demand for space in Hillsborough County over the next five years can be linked to the growth projections of these industries.

### Life Sciences Subsectors Growth in Hillsborough County, 2018-2023

<table>
<thead>
<tr>
<th>Industry</th>
<th>2018 Jobs</th>
<th>2023 Jobs</th>
<th>Jobs Gained</th>
<th>Est. Total SF Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopharmaceutical Manufacturing</td>
<td>414 jobs</td>
<td>547 jobs</td>
<td>+133 jobs</td>
<td>39k RSF</td>
</tr>
<tr>
<td>Medical Devices &amp; Equipment</td>
<td>1,598 jobs</td>
<td>1,722 jobs</td>
<td>+124 jobs</td>
<td>36k RSF</td>
</tr>
<tr>
<td>Biopharmaceutical Distribution</td>
<td>2,454 jobs</td>
<td>2,462 jobs</td>
<td>+8 jobs</td>
<td>2k RSF</td>
</tr>
<tr>
<td>Research, Testing, &amp; Medical Laboratories</td>
<td>6,528 jobs</td>
<td>7,569 jobs</td>
<td>+1,041 jobs</td>
<td>302k RSF</td>
</tr>
<tr>
<td><strong>SUBTOTAL (Lab users):</strong></td>
<td><strong>10,994 jobs</strong></td>
<td><strong>12,300 jobs</strong></td>
<td><strong>1,306 jobs</strong></td>
<td><strong>379k RSF</strong></td>
</tr>
<tr>
<td>Hospitals*</td>
<td>25,430 jobs</td>
<td>27,686 jobs</td>
<td>+2,256 jobs</td>
<td>654k RSF</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>36,424 jobs</strong></td>
<td><strong>39,986 jobs</strong></td>
<td><strong>+3,562 jobs</strong></td>
<td><strong>1,033k RSF</strong></td>
</tr>
</tbody>
</table>

Assumes 290 RSF per employee (IFMA)

Job growth projections for Hillsborough County’s thriving life sciences industries indicate a substantial amount of space will be demanded over the next five years. However, strong demand projections for subsectors like Research, Testing, & Medical laboratories indicate that a substantial amount of demand for product similar to the Research Park’s exist, while little product is in the pipeline to fill this demand.

*Job growth in the hospital industry will likely consume space on a hospital campus, rather than in new lab space.*

Source: Square footage estimates from IFMA San Diego, 2009
Breaking Down Anticipated Tech Growth

Nationwide, tech-focused industries are becoming increasingly relevant in the wake of the tech revolution. Although firms across all industries are increasingly using technology to support their business activities, HR&A has identified several key subindustries related to research and the creation of new technologies.

**Tech Equipment Manufacturing**
- Computer and Electronic Product Manufacturing
- Electrical Equipment, Appliance, and Component Manufacturing
- Transportation Equipment Manufacturing

**Tech Professional Services**
- Software Publishers
- Data Processing, Hosting, and Related Services
- Other Information Services
- Computer Systems Design and Related Services
- Management, Scientific, and Technical Consulting Services
- Scientific Research and Development Services
- Other Professional, Scientific, and Technical Services

With a number of high-caliber research centers, like the Florida Center for Cybersecurity, USF's campus is a desirable location for tech firms who may wish to collocate with USFRF’s valuable institutional resources. With a sector-wide growth of 53% in the Hillsborough tech industry, the demand pool may be heavily weighted with high-value tech firms. In general, these firms provide high-paying jobs, with the industry-wide salary of $92,000 in Hillsborough County exceeding the average salary of $61,000 for all industries (2018).

Source: Precedent HR&A analysis
While equipment manufacturing employment has declined since 2001, professional tech services have grown dramatically, gaining 16,500 jobs.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tech Equipment Manufacturing</strong></td>
<td>5,925</td>
<td>3,975</td>
<td>(1,950)</td>
<td>(33%)</td>
<td>$79,900</td>
</tr>
<tr>
<td>Computer and Electronic Product Manufacturing</td>
<td>2,940</td>
<td>1,455</td>
<td>(1,486)</td>
<td>(51%)</td>
<td>$81,400</td>
</tr>
<tr>
<td>Electrical Equipment, Appliance, and Component Manufacturing</td>
<td>1,004</td>
<td>1,166</td>
<td>161</td>
<td>16%</td>
<td>$88,400</td>
</tr>
<tr>
<td>Transportation Equipment Manufacturing</td>
<td>1,981</td>
<td>1,355</td>
<td>(626)</td>
<td>(32%)</td>
<td>$70,800</td>
</tr>
<tr>
<td><strong>Tech Professional Services</strong></td>
<td>21,306</td>
<td>37,818</td>
<td>16,512</td>
<td>77%</td>
<td>$94,000</td>
</tr>
<tr>
<td>Software Publishers</td>
<td>225</td>
<td>2,264</td>
<td>2,039</td>
<td>907%</td>
<td>$120,700</td>
</tr>
<tr>
<td>Data Processing, Hosting, and Related Services</td>
<td>4,106</td>
<td>2,821</td>
<td>(1,285)</td>
<td>(31%)</td>
<td>$115,300</td>
</tr>
<tr>
<td>Other Information Services</td>
<td>180</td>
<td>859</td>
<td>679</td>
<td>377%</td>
<td>$88,000</td>
</tr>
<tr>
<td>Computer Systems Design and Related Services</td>
<td>8,205</td>
<td>12,593</td>
<td>4,388</td>
<td>53%</td>
<td>$109,600</td>
</tr>
<tr>
<td>Management, Scientific, and Technical Consulting Services</td>
<td>5,198</td>
<td>11,021</td>
<td>5,822</td>
<td>112%</td>
<td>$82,600</td>
</tr>
<tr>
<td>Scientific Research and Development Services</td>
<td>689</td>
<td>2,660</td>
<td>1,971</td>
<td>286%</td>
<td>$82,400</td>
</tr>
<tr>
<td>Other Professional, Scientific, and Technical Services</td>
<td>2,703</td>
<td>5,600</td>
<td>2,897</td>
<td>107%</td>
<td>$66,400</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>27,231</td>
<td>41,793</td>
<td>14,562</td>
<td>53%</td>
<td>$91,567</td>
</tr>
</tbody>
</table>
Tech sectors are projected to gain 5,900 new jobs over the next five years, indicating the potential for strong demand for office with computational/dry lab facilities.

**Job Growth of Tech Industries in Hillsborough County, 2001-2023**

The growth of the high-paying tech sector in Hillsborough County can be dichotomized into a stagnant tech equipment manufacturing subsector and a booming tech professional services subsector. As the Tampa Bay area on a whole shifts away from a manufacturing-based economy, Hillsborough County’s tech equipment manufacturing sector has seen a decline from 2001 figures and is projected to stabilize near its current employment levels. The professional services side, however, is due to continue its strong growth, possibly offering 15% more jobs by 2023 at competitive salaries of $94,000 annually.
Over the next five years, tech sectors are projected to require more than 1.7M new SF of space throughout Hillsborough County.

### Tech Subsectors Growth in Hillsborough County, 2018-2023

<table>
<thead>
<tr>
<th>Industry</th>
<th>2018 Jobs</th>
<th>2023 Jobs</th>
<th>Jobs Gained</th>
<th>Est. Total SF Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tech Equipment Manufacturing</strong></td>
<td>3,975</td>
<td>4,138</td>
<td>163</td>
<td><strong>61k</strong></td>
</tr>
<tr>
<td>Computer and Electronic Product Manufacturing</td>
<td>1,455</td>
<td>1,515</td>
<td>60</td>
<td><strong>23k</strong></td>
</tr>
<tr>
<td>Electrical Equipment, Appliance, and Component Manufacturing</td>
<td>1,166</td>
<td>1,219</td>
<td>54</td>
<td><strong>20k</strong></td>
</tr>
<tr>
<td>Transportation Equipment Manufacturing</td>
<td>1,355</td>
<td>1,404</td>
<td>49</td>
<td><strong>18k</strong></td>
</tr>
<tr>
<td><strong>Tech Professional Services</strong></td>
<td>37,818</td>
<td>43,515</td>
<td>5,697</td>
<td><strong>1,652k</strong></td>
</tr>
<tr>
<td>Software Publishers</td>
<td>2,264</td>
<td>2,795</td>
<td>530</td>
<td><strong>154k</strong></td>
</tr>
<tr>
<td>Data Processing, Hosting, and Related Services</td>
<td>2,821</td>
<td>2,830</td>
<td>9</td>
<td><strong>3k</strong></td>
</tr>
<tr>
<td>Other Information Services</td>
<td>859</td>
<td>996</td>
<td>137</td>
<td><strong>40k</strong></td>
</tr>
<tr>
<td>Computer Systems Design and Related Services</td>
<td>12,593</td>
<td>14,401</td>
<td>1,808</td>
<td><strong>524k</strong></td>
</tr>
<tr>
<td>Management, Scientific, and Technical Consulting Services</td>
<td>11,021</td>
<td>12,140</td>
<td>1,119</td>
<td><strong>325k</strong></td>
</tr>
<tr>
<td>Scientific Research and Development Services</td>
<td>2,660</td>
<td>3,372</td>
<td>712</td>
<td><strong>206k</strong></td>
</tr>
<tr>
<td>Other Professional, Scientific, and Technical Services</td>
<td>5,600</td>
<td>6,981</td>
<td>1,381</td>
<td><strong>400k</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>41,793</td>
<td>47,653</td>
<td>5,860</td>
<td><strong>1,713k</strong></td>
</tr>
</tbody>
</table>

Assumes 375 RSF per manufacturing employee and 290 RSF per professional services employee (ORG Architects & WXY Architects, 2017)
Regional industries aligned with the Research Park’s mission are projected to drive growing demand for dry and wet lab space.

379k RSF
Projected demand in 2023 for lab-using life sciences industries

+ 1,713k RSF
Projected demand in 2023 for tech industries

2,092k RSF
Combined projected demand in 2023 for focus industries

Immense growth in the life sciences and tech sectors is projected to continue in Hillsborough County through 2023, and with 4.2M SF of office space in the development pipeline meant to serve the whole Hillsborough County economy, the market will ostensibly be undersupplied by 2023. Should growth in these focus industries continue at current projections, USFRF may have a stable source of demand from tenants in tech and the life sciences.
With strong growth projected in the lab-using industries such as life sciences and tech, there may be a supply gap for this market in the next five years.

**Hillsborough County Demand for Life Science & Tech Space vs Anticipated Supply and Turnover, 2018-2023**

<table>
<thead>
<tr>
<th>2.5M SF</th>
<th>2.0M SF</th>
<th>1.5M SF</th>
<th>1.0M SF</th>
<th>0.5M SF</th>
<th>0.0M SF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Demand</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Job Growth: Life Sci. &amp; Tech, 2.1M SF</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supply</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unmet Demand, 1.2M SF</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Existing Vacancy, 0.5M SF</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Known Pipeline, 0.4M SF</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

With almost **7,200 jobs expected** to be created in Hillsborough County in the life sciences and tech industries by 2023, there will be **some 2.1 million SF of new demand for lab and office space**. With only 400,000 SF in the development pipeline as of now (and some 500,000 SF of existing product sitting vacant), there could be up to **1.2 million SF of unmet demand** for space by 2023. If more product is not created, this constrained market signals that rents may rise or vacancy may continue to fall.
Report Overview and Executive Summary

Background

Economic Overview

**Market Trends**

- *Historical and Projected Development Trends*
- *Growth in Aligned Industries*
- **Internal Demand at USF**
  - *Summary Office and Lab Demand*
  - *Supporting Amenities*

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
The growth of USF’s academic departments may produce a sustainable source of endogenous demand for research space that can backfill market-based demand.

**Findings from USF Research Laboratory 5-year Strategic Plan Space Assessment, 2017**

<table>
<thead>
<tr>
<th>Department</th>
<th>Projected New Primary Investigators</th>
<th>% Growth from 2017</th>
<th>Projected Additional Research SF Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>+70</td>
<td>+68%</td>
<td>69k SF</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>+75</td>
<td>+42%</td>
<td>81k SF</td>
</tr>
<tr>
<td>Marine Sciences</td>
<td>+15</td>
<td>+38%</td>
<td>15k SF</td>
</tr>
<tr>
<td>Behavioral Sciences</td>
<td>+20</td>
<td>+31%</td>
<td>18k SF</td>
</tr>
<tr>
<td>Health – Medicine</td>
<td>+52</td>
<td>+24%</td>
<td>57k SF</td>
</tr>
<tr>
<td>Health – Nursing</td>
<td>+5</td>
<td>+500%</td>
<td>7k SF</td>
</tr>
<tr>
<td>Health – Public Health</td>
<td>+5</td>
<td>+71%</td>
<td>6k SF</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td></td>
<td></td>
<td><strong>253k SF</strong></td>
</tr>
</tbody>
</table>

Internal growth experienced by USF’s lab-using departments can potentially be located within the next expansion of the USF Research Park. It should not be expected that all new space at the Research Park accommodates the above departments, or that all the above departments are accommodated within the proposed space. As seen in the 15% growth of research funding during the five years between FY 2013-2017, the University is growing rapidly. Strong growth is projected to continue for non-hospital-based lab-users like Engineering, Arts & Sciences, and Behavioral Sciences, indicating there is substantial endogenous demand within the University.

Source: Research Laboratory 5-year Strategic Plan Space Assessment

---

**Board of Trustees Regular Meeting - New Business - Consent Agenda**
Additionally, due to a lack of excess space, the USF Research Park has had to turn down requests from several prospective life science and tech tenants.

7 Corporate Inquiries
Received seeking space since Dec 2017

~1k SF
Avg. space requested by each tenant

~7k SF
Annual space demanded by corporations

~35k SF
Aggregate unmet demand from corporate tenants over the next 5 years

Although the Research Park has been successful at producing a large quantity of start-ups, it does not currently have a strong corporate presence on campus from established life sciences or tech companies. These companies may benefit from the entrepreneurial energy surrounding the USF Connect incubator and the research funding brought in by USF programs. The Research Park has not been able to capitalize on these features, in large part due to space constraints. Since December 2017, the Office of Corporate Partnerships has had to pass on seven inquiries from firms in the bioscience or cyber spaces, citing a lack of space. 

Source: USFRF
Even amongst the most aligned departments, there is excess internal demand for new office and lab space.

While individual departments have indicated substantial demand for lab space across a variety of USF’s research programs, not all of these users are well-suited for space at the Research Park’s new building.

Some programs, like the College of Nursing and the College of Marine Sciences, have purpose-built facilities elsewhere where new hires would likely be placed. The Colleges of Medicine, Public Health, and Behavioral Sciences may also tend to consolidate new hires within their existing spaces, though to a lesser degree than Nursing or Marine Sciences. Research within the Colleges of Engineering and Arts & Sciences, however, would likely be most aligned with the goals of the new facility. Beyond the projections included previously, additional conversations with representatives of three different departments placed total research space needs between 254k SF – 329k SF in the near- to mid-term.

Additional considerations include that demand from these academic programs should be balanced with potential offers made to the Office of Corporate Partnerships and the Technology Transfer Office, and that USFRF may wish to allocate lab space to institutional users in concert with larger plans to grow desired industries on the Research Park campus.

### Demand Projections for USF Programs

#### Primary Alignment
- **USFRF Leadership Offices:** 30k SF
- **Potential Corporate Partnerships Tenants:** 35k SF
- **College of Engineering:** 69k SF
- **College of Arts & Sciences:** 81k SF
- **Cyber Security and Computer Science:** 8k SF
- **TOTAL:** 223k SF

#### Secondary Alignment
- **College of Behavioral Sciences:** 18k SF
- **USF Health - Medicine:** 57k SF
- **USF Health – Public Health:** 6k SF
- **TOTAL:** 81k SF
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

– Historical and Projected Development Trends
– Growth in Aligned Industries
– Internal Demand at USF
– Summary Office and Lab Demand
– Supporting Amenities

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
An assessment of three different drivers of demand indicates that there is substantial demand from various sources for lab and office space at USF Research Park.

### Historical and Projected Development Trends

**4.5M SF Office**  
Office absorption in Hillsborough County over past five years

**31%**  
Increase in Class A rents in Hillsborough County, past 5 years

**290k SF**  
Average annual leasing turnover for lab users in Tampa MSA

### Growth in Aligned Industries

**7,170 jobs**  
In applicable Life Sciences and Tech industries by 2023

**2.1M SF**  
Additional space demanded by Life Sciences & Tech firms by 2023

**1.2M SF**  
Unmet demand for Life Science and Tech space

### Internal Demand at USF

**15%**  
Annual research funding growth from 2013-2017

**253k SF**  
Demanded by new faculty hires by 2022

**35k SF**  
Unmet private sector demand from corporate partnerships

The Research Park should consider different sources of demand when determining the mixture of lab and office types that the new facility might support. Job growth in the lab-using sectors of tech and life sciences alone is expected to produce 1.2 million SF in unmet space demand by 2023 across the county. Should projected growth from lab-using sectors not supply a sufficient demand to tenant the building (in terms of established or start-up private-sector tenants), substantial annual leasing turnover indicates that excess space could be filled from capturing near-term tenant “churn.” Additionally, should the private sector not produce sufficient demand to totally fill the space, tenanting demand from within the University itself could likely support the balance of the building.
With excess demand stemming from a variety of sources, USF has a unique opportunity to be intentional in its selection of tenants.

**Tenant Typologies:**

- **Start-up Firms**
- **Institutional Research**
- **Established Corporations**

University research park best practices require that facilities and industrial partnerships are *program driven*, rather than real estate driven. USF is in the ideal position where market demand and internal drivers will allow for the university to *purposefully curate tenancy* to serve the best interest of students, research, tech transfer and economic growth. USF should thoughtfully consider the key objectives of comparative programmatic scenarios as they contemplate both the financial objectives as well as their leadership role as a research institution.
Report Overview and Executive Summary

Background

Economic Overview

Market Trends
  – Historical and Projected Development Trends
  – Growth in Aligned Industries
  – Internal Demand at USF
  – Summary Office and Lab Demand

  – Supporting Amenities

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
Research Parks can be most successful when the programming and physical design encourage interactions between researchers from different disciplines.

Increasingly, today’s workforce has shown preferences towards amenitized work environments. For auto-oriented settings, these amenities can take the form of conveniences like easily accessible food and beverage or quality of life elements like recreational facilities and open space. Retail is often an important component of placemaking and can be especially effective at rounding out a single-use development like a research or office park. To determine what types of retail may work well on this site, HR&A undertook a retail gap analysis.
Amenities in the form of retail or dining can provide compelling placemaking benefits to research parks while also activating the space for users other than employees.

To determine the amount of unutilized spending potential in the market, HR&A conducted a retail gap analysis of two sub-markets surrounding USF’s campus. Considering the employee, student, and residential populations around the site as well as the existence of regional-serving retail at the University Mall, this retail gap analysis was targeted toward revealing what restaurant and other food & beverage opportunities might be market-supportable on the site.

**Primary Retail Area**
(1-mile Radius)
- 12,700 residents
- 17,600 workers
- 5,650 on-campus students
- 28,000 annual out-of-town visitors

**Secondary Retail Area**
(5-mile Radius)
- 255,700 residents

Source: ESRI Business Analyst
While there is some unmet spending potential for food & beverage focused retail, the sit-down restaurant sector is currently over-supplied within a five-mile radius.

The area surrounding USF is generally over-retailed, hindering the opportunity for convenience retail to be supported by the existing market on the USFRF campus. However, as noted by multiple stakeholders, there is a desire for fine dining options in the immediate vicinity or even on campus. While many “white-tablecloth” restaurant operators are likely to be deterred by the challenging retail climate, there is a possibility that enough demand exists to support a modified fine dining concept, such as a private on-campus service that can support the needs of USFRF.

Source: HR&A analysis

*This analysis does not account for the on-campus Publix Supermarket that opened in December 2018, the first ever on-campus grocery store in Publix’s portfolio.
A white-tablecloth restaurant located at the Research Park would have to capture 99% of the potential market fine dining market within a five-mile radius of USF.

<table>
<thead>
<tr>
<th>$277.0 million</th>
<th>versus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total annual spending potential for restaurants in secondary trade area</td>
<td>$2 Million</td>
</tr>
<tr>
<td>$2,022,100 in spending potential for fine dining</td>
<td>average sales required per fine dining establishment</td>
</tr>
</tbody>
</table>

Nationwide, fine dining makes up 0.73% of the total restaurant landscape and only 1.4% of the full-service restaurant landscape. The total fine dining industry in the US makes up over $10 billion dollars in annual sales, with an average per unit volume of almost $2 million dollars per unit. In comparison to the rest of the industry, the average unit volume for all full-service restaurants is $824,000 per unit per year. Assuming that $2 million dollars of spending potential are needed to support one white-tablecloth restaurant, the $275,000 in spending potential in the primary trade area is insufficient for this use, it is improbable to assume that a restaurant here could capture 99% of the $2,022,100 of spending potential in the secondary market.

Source: CHD Expert
Although an independent fine dining option may not be supportable, USFRF could potentially explore a partnership with a private-sector food services provider.

United Technologies Corporate Dining Facility  
Farmington, CT – Serves 150

With a 4,000 SF dining room and a 2,150 SF kitchen that can serve 150 people, this facility provides a fine dining option for business leaders in a suburban office park setting. It also includes a “networking area” with casual seating to provide for day-to-day dining needs.

Wilton Corp. Park Executive Dining Room  
Wilton, CT – Serves 20

This executive dining and conference room provides a flexible dining option for the Wilton Corporate Park, a similarly suburban location with limited population to support permanent fine dining. With less frequent usage than a full-service restaurant, the park’s food service operator, Sodexo, provides catering on-demand.

Thinking creatively about how multi-use spaces can address the lack of fine dining around the USF campus, USFRF may consider including a dining room with adjacent warming kitchen in plans for the new facility, to be operated by the University’s food service provider or an independent provider under a separate contract.

Source: CHK Architects
Report Overview and Executive Summary
Background
Economic Overview
Market Trends
Programmatic Recommendations
Financial Analysis
Recommendations and Next Steps
HR&A developed three programmatic scenarios for financial sensitivity testing, representing a spectrum of tenant mixes and mix of office and lab spaces.

<table>
<thead>
<tr>
<th>Tenant Ratio</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larger Firm</td>
<td>22k SF (~1 firm)</td>
<td>44k SF (~2 firms)</td>
<td>65k SF (~3 firms)</td>
</tr>
<tr>
<td>Start-Up</td>
<td>37k SF (~45 firms)</td>
<td>37k SF (~45 firms)</td>
<td>41k SF (~50 firms)</td>
</tr>
<tr>
<td>Institutional</td>
<td>61k SF (~58 PI’s)</td>
<td>39k SF (~38 PI’s)</td>
<td>14k SF (~13 PI’s)</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office</td>
<td>84k SF (70% total)</td>
<td>72k SF (60% total)</td>
<td>60k SF (50% total)</td>
</tr>
<tr>
<td>Dry Lab</td>
<td>18k SF (15% total)</td>
<td>24k SF (20% total)</td>
<td>30k SF (25% total)</td>
</tr>
<tr>
<td>Wet Lab</td>
<td>18k SF (15% total)</td>
<td>24k SF (20% total)</td>
<td>30k SF (25% total)</td>
</tr>
</tbody>
</table>

Based on interviews with potential occupants, existing demand in the Tampa market, and preferences of life sciences and tech firms nationally, HR&A has identified a set of three programmatic options to guide USFRF’s development of a new 120k RSF building. Depending on USFRF’s preferred programmatic mix as well as its ability to recruit private-sector tenants, the three options span a set of scenarios depicting different proportions of larger tenants, balanced out by start ups and institutional tenants. Each of the three scenarios has different allocations of office, dry lab, and wet lab space, depending on the facility preferences of each tenant type.
Scenario 1 leverages the presence of a focused industry anchor to catalyze innovative activities while serving broad demand for academic-driven space.

### Scenario 1

<table>
<thead>
<tr>
<th>Tenant Ratio</th>
<th>Larger Firm</th>
<th>22k SF</th>
<th>~1 firm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Start-up</td>
<td>37k SF</td>
<td>~45 firms</td>
</tr>
<tr>
<td>Institutional</td>
<td>61k SF</td>
<td>~58 PI's</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Office</th>
<th>84k SF</th>
<th>70% total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dry Lab</td>
<td>18k SF</td>
<td>15% total</td>
</tr>
<tr>
<td></td>
<td>Wet Lab</td>
<td>18k SF</td>
<td>15% total</td>
</tr>
</tbody>
</table>

The Brand Anchor

The single large firm tenant strategy provides an opportunity for USF to seek out a high-quality corporate partner with brand cachet to anchor the facility and promote a targeted research focus. A larger number of university programs would find value in having proximity to the brand tenant in order to facilitate joint research, student experiences, and faculty engagement. Start-up companies with products and services that would benefit the brand tenant would create market potential and a valuable “win-win” environment.

This scenario focuses on meeting the wide-spread need for new space from multiple institutional sources. Due to the strong demand within USF, this program may provide the quickest and most sure lease-up. Larger firms must be selected judiciously as a firm that is well-aligned with USFRF’s main research activities can catalyze new research and innovation.

Programmatically, this scenario provides proportions of lab and office space comparable to what is seen at stand-alone incubators. It is understood that much of the University’s excess demand is related to a need for offices and computational space. Additionally, institutional users may be more willing to share high-cost lab space than corporate clients, allowing USFRF to consolidate lab space in this scenario.
Scenario 2 offers USFRF a middle ground between corporate anchors and heavy institutional presence, allowing start-ups to benefit from exposure to both.

### Scenario 2

**Tenant Ratio**

<table>
<thead>
<tr>
<th>Tenant Type</th>
<th>SF</th>
<th>Firms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larger Firm</td>
<td>44k</td>
<td>~2</td>
</tr>
<tr>
<td>Start-up</td>
<td>37k</td>
<td>~45</td>
</tr>
<tr>
<td>Institutional</td>
<td>39k</td>
<td>~38 PI's</td>
</tr>
</tbody>
</table>

**Program**

<table>
<thead>
<tr>
<th>Program</th>
<th>SF</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>72k</td>
<td>60%</td>
</tr>
<tr>
<td>Dry Lab</td>
<td>24k</td>
<td>20%</td>
</tr>
<tr>
<td>Wet Lab</td>
<td>24k</td>
<td>20%</td>
</tr>
</tbody>
</table>

The Convergence

A well-balanced mix of large firms, start-ups, and university programs provides an opportunity to derive a more flexible marketing strategy and broader partnership potential. Without one single brand tenant, the facility could converge multiple research interests with varied start-up companies engaging with a smaller, but more diverse representation from institutional research and academic programs. As market demands change, this model provides an opportunity to mix up uses and demand more quickly.

This balanced mixture of entrepreneurial activity, institutional research, and corporate visioning will foster translational conversations between each tenant typology. Should demand from private sector established firms or start-ups fall short, the program has a secure backstop of excess demand from institutional sources.

The programmatic distribution of space also strikes a balance between a lab-dominated setting (as in Scenario 3) and a more standard office-to-lab mixture (as in Scenario 1). For this and all other scenarios, lab space dedicated to start-ups can be supplemented with academic users of lab space should demand from smaller firms prove insufficient to fill the area allotted.
Scenario 3 emphasizes a strong corporate presence to position the Research Park as a hub for multiple industry partnerships.

### Scenario 3

<table>
<thead>
<tr>
<th>Tenant Ratio</th>
<th>Larger Firm</th>
<th>65k SF</th>
<th>~3 firms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start-up</td>
<td>41k SF</td>
<td>~50 firms</td>
<td></td>
</tr>
<tr>
<td>Institutional</td>
<td>14k SF</td>
<td>~13 PI's</td>
<td></td>
</tr>
</tbody>
</table>

**Program**

<table>
<thead>
<tr>
<th></th>
<th>Office</th>
<th>60k SF</th>
<th>50% total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Lab</td>
<td>30k SF</td>
<td>25% total</td>
<td></td>
</tr>
<tr>
<td>Wet Lab</td>
<td>30k SF</td>
<td>25% total</td>
<td></td>
</tr>
</tbody>
</table>

The Corporate Hub

The Corporate Hub will be a center of industrial activity at USF, populated by corporate users and a healthy mix of growing start-ups. While still offering some strategic institutional presence, this strategy plays to economic development objectives, developing a more robust corporate culture within the Research Park and providing a magnet for future private sector interest and investment. Ultimately, this scenario enhances the USF Research Park brand as a true hub for university and industry partnerships.

Here, institutional presence is limited to around 11% of the floor area. While this portion could be leased to researchers, it may be more beneficial for the incubator to use this space to provide support services for small businesses. A balance can be struck between supporting the start-up environment while still providing the research activity that attracts corporate tenants.

This scenario provides the highest proportions of lab space of the three presented options. It is assumed that corporate tenants would select to locate at USFRF due to the research opportunities here. It is less likely that these corporate tenants would seek to locate non-lab office space at the Research Park given the supply of Class A product elsewhere in the Tampa market.
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
The financial feasibility analysis is used to provide a framework for the anticipated performance of the new facility during a stabilized year of operation.

<table>
<thead>
<tr>
<th>Rents</th>
<th>Construction Costs</th>
<th>Development Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$25.9/RSF</strong>&lt;br&gt;Class A Office&lt;br&gt;(Costar, N I-75 Corridor)</td>
<td><strong>$196/GSF</strong>&lt;br&gt;Class A Office Hard+Soft Costs&lt;br&gt;(JLL Office Fit-out Guide 2018)</td>
<td><strong>120k RSF</strong>&lt;br&gt;Anticipated program size for the new building</td>
</tr>
<tr>
<td><strong>$30.4/RSF</strong>&lt;br&gt;Dry Lab Space&lt;br&gt;(USF Connect)</td>
<td><strong>$272/GSF</strong>&lt;br&gt;Dry Lab All-in Costs&lt;br&gt;(CBRE Fit-out Guide, HR&amp;A Comparables)</td>
<td><strong>4.3%</strong>&lt;br&gt;USF Cost of Capital</td>
</tr>
<tr>
<td><strong>$43.0/RSF</strong>&lt;br&gt;Wet Lab Space&lt;br&gt;(USF Connect)</td>
<td><strong>$535/GSF</strong>&lt;br&gt;Wet Lab All-in Costs&lt;br&gt;(CBRE Fit-out Guide, HR&amp;A Comparables)</td>
<td><strong>7.0%</strong>&lt;br&gt;Lab &amp; Office Cap Rates&lt;br&gt;(Avison Young, CBRE Med/Office)</td>
</tr>
</tbody>
</table>

Rents were determined through an analysis of current asking rents in the N I-75 Corridor. For all three uses, this financial analysis assumed that **start-up tenants would pay a discounted rent** (-21% for office and dry lab and -29% for wet lab); this discount was determined by comparing current incubator rents to market-rate rents. Construction costs were derived from broker reports and architectural sources and informed by HR&A precedents for wet lab and dry lab fit-out costs. Cap rates were also taken from broker reports for their respective product types. **Wet and dry lab estimates are inclusive of fit-out costs**; office assumes a $45/RSF tenant improvement cost to the landlord. It is assumed that USFRF would bear the full cost of the lab fit-out in order to attract smaller tenants who could not afford up-front fit-out costs. In actuality, larger established tenants would likely cover a significant portion of their fit-out costs.
The project is likely to not require annual operating assistance once the property stabilizes.

Different rents charged to different tenant typologies produce a range of annual levered cash flows that the University could bring in. Scenario 3 produces the largest annual surplus cash flow, but also assumes that corporate clients take on tenant improvement costs for lab. This option also relies on multiple large firms to locate at the new facility. Should recruiting these firms prove unfeasible or not preferred by USFRF, the options relying more heavily on university tenants do not severely decrease the annual surplus.
Although the project may not meet a private developer’s financial hurdles, the fulfillment of a larger institutional mission may be considered in tandem with return metrics.

<table>
<thead>
<tr>
<th>Sensitivities on Internal Rate of Return</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-year Hold</td>
<td>-1.1%</td>
<td>0.4%</td>
<td>1.9%</td>
</tr>
<tr>
<td>20-year Hold</td>
<td>5.1%</td>
<td>5.9%</td>
<td>6.8%</td>
</tr>
<tr>
<td>30-year Hold</td>
<td>6.4%</td>
<td>7.1%</td>
<td>7.7%</td>
</tr>
<tr>
<td>99-year Hold</td>
<td>7.3%</td>
<td>7.7%</td>
<td>8.2%</td>
</tr>
</tbody>
</table>

Because of its unique institutional expectations, traditional return metrics for assessing the development feasibility of the new facility may be less applicable to USFRF. It is assumed the USFRF will retain the building for a longer timeframe than a private-sector developer. USFRF may consider this development financially feasible when many private developers would not. Three key factors increase the feasibility for USFRF:

1) USFRF does not need to pay for land acquisition for this building.
2) A portion of the high lab fit-out costs are likely to be borne by established corporate tenants.
3) As a state-supported academic institution, USF has a lower cost of capital than private developers might.
Financial feasibility and project cost can also be affected by the concessions USFRF makes in terms of tenant improvements offered to corporate prospects.

<table>
<thead>
<tr>
<th>Sensitivities on Internal Rate of Return</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 large firm, 45 incubator tenants, 58 primary investigators</td>
<td>USF assumes all lab fit-out costs. USF assumes $45/RSF of office fit-out. Assumes 10-year hold.</td>
<td>2 large firms, 45 incubator tenants, 38 primary investigators</td>
<td>3 large firms, 50 incubator tenants, 13 primary investigators</td>
</tr>
</tbody>
</table>

**Baseline:**
**USF Assumes TI’s**

| IRR: | -1.1% | 0.4% | 1.9% |

**Alternate:**
**Large Firm Assumes TI’s**

| IRR: | -0.4% | 2.5% | 6.4% |

In the baseline scenario, it is assumed that USF pays for all lab fit-out costs and assumes the market standard of $45/RSF in TI’s for office space. This may increase the attractiveness of the site to corporate tenants. If corporate tenants are required to assume the fit-out costs for their lab spaces, the USFRF’s returns will increase, making all scenarios, and scenario 3 in particular, more financially attractive.
Adjustments in anticipated market performance should be taken into account when deciding on the preferred scenario.

<table>
<thead>
<tr>
<th>Sensitivities on Excess Levered Cash Flow</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 large firm, 45 incubator tenants, 58 primary investigators</td>
<td>2 large firms, 45 incubator tenants, 38 primary investigators</td>
<td>3 large firms, 50 incubator tenants, 13 primary investigators</td>
</tr>
<tr>
<td><strong>Baseline</strong></td>
<td>$750k</td>
<td>$845k</td>
<td>$950k</td>
</tr>
<tr>
<td><strong>Market Rent Increase (+10%)</strong></td>
<td>$825k</td>
<td>$930k</td>
<td>$1,045k</td>
</tr>
<tr>
<td><strong>No Rent Discount (for Start-ups)</strong></td>
<td>$1,045k</td>
<td>$1,090k</td>
<td>$1,135k</td>
</tr>
<tr>
<td><strong>Increased Vacancy (+2.5% Vacancy)</strong></td>
<td>$715k</td>
<td>$805k</td>
<td>$905k</td>
</tr>
</tbody>
</table>

Variations in market performance as measured by changes to rent and vacancy rates will also impact development feasibility. As rent and vacancy levels change in the North I-75 Corridor while this project undergoes pre-development, the University’s decision may be informed by these sensitivities. Similarly, should the start-up market advance in a direction that indicates that competitive start-ups no longer require rent subsidies, the project becomes more financially advantageous for USFRF.
Report Overview and Executive Summary

Background

Economic Overview

Market Trends

Programmatic Recommendations

Financial Analysis

Recommendations and Next Steps
Recommendations and Next Steps

Because research parks are positioned at the crossroads of university oversight and private interests, the development, financing and operation has always been complicated. The rise of “Innovation Districts” over the past five years has put unexpected pressures on existing university run parks and has made the work even more complex. The popularity of urban tech hubs requires research parks to consider a whole range of new issues as the plan future development. Parks must ask themselves how their approach will meet the changing nature of work, the desire for more amenitized and programmed environments, and the requirement for dynamic public-private partnerships.

Regardless of where they are in their life cycle, such developments require a “market and innovation reboot” usually transitioning the current strategy and planning through a new “Launch, Start-Up, and Stabilization” phase to address current market demands in the innovation marketplace.
Recommendations and Next Steps

The Research Foundation continues to provide consistent oversight, ensuring that the physical assets remain leased and maintained and developing a project that delivers high value back to the University. In addition to this Demand Study, HR&A suggests that USF consider the following regarding USF Research Park market demands and feasibility:

**Campus and Facilities**
- Update the 2009 *USF Research and Development Park Master Plan*, noting the potential for additional entitilements to allow the Park to respond to the denser development patterns emerging in leading urban research parks
- Identify a specific site plan area for new development
- Update real estate financial models and funding sources
- Enhance the “campfire” of the Sanberg Family Inventors Commons that serves as an accessible and affordable convergence space for tenants and visitors

**Organization**
- Secure a 3-5-year business plan approval
- Established metrics of project success, both financial and programmatic

**Curriculum and Programs**
- Seek out university participation from academic and research interests
- Conduct market and benchmarking research
- Reevaluate and re-formulate Research Park tenant requirement, partnership agreements, and required policy approvals
- Devise a public space programming and curation strategy, including funding and implementation models
- Engage the community to help guide programming decisions
The University of South Florida Research Park Mixed Use Lab and Office project consists of a 3-story, estimated 120,000 square-foot research laboratory and office facility with retail and dining amenities (together, the “Project”). Project financing will be provided through the issuance of debt by the USF Financing Corporation (the “DSO”) in an amount not to exceed $27,000,000 (the “Debt”) and a $15,000,000 equity contribution by the University of South Florida Research Foundation, Incorporated (“USFRF”).

The USF Research Park, as a center for research and innovation, facilitates collaboration, innovation, development, transfer and commercialization of technology. USFRF provides facilities and programs for both startup and established research companies.

The Project’s typical lab floor plan will have a ratio of 40% lab, 30% office and 30% that will flex between lab and office in line with industry trends. The lab floor plan will give consideration to large, medium and/or small tenants with reduced corridor allocation to maximize rentable space. The Building Owners and Managers Association guideline for mixed use facilities is most advantageous to the owner with a reduced common area/corridor ratio load factor. The design will incorporate flexibility for long-term marketability and economic success.

The retail and dining amenities will be contracted to a third-party vendor who will be responsible for costs for interior build-out, equipping of the facilities and for operations.

The Project is included on the USFRF master plan and it addresses projected demand for laboratory and office space. The Project is not required to be on the University’s master plan. With its location on Fowler Avenue, it defines the approach to the University and the USF Research Park.

The Project will be located near the southeastern corner of the USF Research Park on the NE corner of Spectrum Blvd and Fowler Avenue.
Projected Start and Opening Date:
The Project is anticipated to be approved by the DSO Board of Directors on April 30, 2019 and the USF Board of Trustees on June 6, 2019. Project design is expected to commence in October 2019 and the Project is expected to be complete in January 2021.

In September 2018, USFRF initiated a procurement for a national, prominent firm to conduct a feasibility/demand study. Recommendations from chief executives of the Association of University Research Parks were sought and three firms were identified. HR&A Advisors, Inc., led by Robert Geolas (who notably operated the Research Triangle Park), was selected. The study was delivered on December 20, 2018.

On November 20, 2018, the DSO and USFRF initiated a competitive procurement process for design and construction services for the core and shell of the Project. Five proposals were received from qualified, experienced firms by the December 18 due date. On February 27, 2019, Skanska USA and Gensler & Associates, who successfully completed large projects for the University, were selected as the design-builder for the Project. Skanska Gensler is committed to deliver the Project at a guaranteed maximum price of $27,000,000.

On February 8, 2019, the DSO and USFRF initiated a competitive procurement process for marketing and brokerage services. Three proposals were received from qualified, experienced firms by the February 28 due date. On March 18, 2019, CBRE was selected as the broker for the Project.

Construction Phase:
Project design will commence in October 2019, followed by the commencement of construction in January 2020 with Project completion in January 2021 (16 months in total).

Project Cost:
Design and construction costs for the proposed core and shell facility are expected to total $27,000,000 with tenant improvement costs of $10,000,000 paid as the facility leases up. Total Project costs are expected to be $42,000,000, which includes $27,000,000 of design/construction costs; $10,000,000 of tenant improvements; $2,400,000 in capitalized interest; a $2,400,000 debt service reserve fund; and $112,000 of costs of issuance. Funding for these Project costs will be provided from a bond amount of $27,000,000 and $15,000,000 of cash equity. (See Estimated Sources and Uses of Funds).
Operation of retail and dining amenities will be outsourced to a third-party vendor/operator, who will be responsible for interior build-out, equipping the facilities and operations.

**Financing Structure:**

The Project will be financed with 20-year, fixed rate, taxable debt issued by the USF Financing Corporation (“DSO”) in an amount of $27,000,000; excluding capitalized interest ($2,430,000) and costs of issuance ($112,000), as well as a $15,000,000 cash equity contribution from the USFRF. The Debt will be privately placed with a commercial bank. On April 11, 2019, the DSO initiated a competitive procurement process for direct purchase of taxable revenue bonds. Three proposals were received from qualified, experienced banks by the April 26 due date. The Debt will be structured with a 20-year final maturity and level debt service.

While current market rates are 4.3%-4.6%, for the purpose of projections, debt service coverage is based on a taxable fixed interest rate of 6.00%. Given the high level of for-profit tenants, the Project will be financed with taxable debt.

A debt service reserve equal to the maximum annual debt service on the bonds will be funded and held at the bank.

Proceeds of the Debt and the equity contribution are anticipated to be sufficient to complete the construction of the Project without the use of additional funds. No proceeds of the Debt will be used to finance operating expenses of the University or USFRF.

**Quantitative Demand For Project:**

The demand study performed by HR&A Advisors, Inc. determined that demand for office and laboratory space at the USF Research Park will derive from three categories, each showing strong indicators for demand currently unmet in the market.

1. Historical and projected development trends
2. Growth in aligned industries
3. Internal demand at the University

Sources of demand are linked to the University’s economic development objectives and have grown as the University has invested in Tampa’s research programs and enterprises. As one of the leading forces behind Tampa’s transition into a life sciences and tech hub, the University is now set to reap the rewards of earlier
investments in the community by accessing pent-up demand for research space.

With assurances that there is demand for lab and office space at the USF Research Park, the University is in a position where it can develop a mixture of tenants for the Project to support its institutional and economic development goals.

It is expected that the Project will enhance the University’s research and economic development missions by concentrating on tenants in market sectors that align with the University’s Research Strategic Plan focus areas of:

1. **Brain and Spinal Cord**: Neuroscience, neuromorphic computing, cognitive sciences, aging, hearing loss, Alzheimer’s, Parkinson’s and other neurodegenerative diseases, prostheses, and spinal cord and traumatic brain injury prevention and mitigation.
2. **Data Science**: Data analytics, financial data analysis, pattern recognition in big data, digital visualization, electronic health records, health informatics and digital humanities.
3. **Heart**: Basic, translational and clinical research, and cardiovascular disease-related care.
4. **Human Security**: Cybersecurity, global security, military research, food security, spread and control of infectious diseases, promoting civil societies and social networks.
5. **Research Translation**: Intellectual property into products, industry collaborations, software services, startups, processes, and policies that improve the human condition, including supporting economic development and job creation.
6. **Water**: Marine science, purification, supply and management, ocean ecology, coastal ecosystems, fisheries, natural hazards and sustainability.

**Assessment of Private Sector Alternatives:**

The University considered a public-private partnership (P3) structure prior to the Project evaluation process. P3 projects can provide advantages for large size, accelerated delivery schedule, risk transfers, scale and density of the project, need to address significant deferred maintenance on buildings to be demolished, and avoiding commensurate use of the University’s bonding capacity. However, those attributes were not present for the Project and a University-financed model was selected. Consideration of the size, scope and nature of the Project, combined with a strong balance sheet of USFRF,
did not make the P3 delivery method advantageous. In the P3 scenario that was considered, the cost to tenants would have been higher, as the development, operating and financing costs were higher for this approach.

The P3 structure would also have placed the University in a subordinate position regarding design input, financial benefits, operational controls and the ability to fully integrate the P3 project with existing research facilities in the USF Research Park. The strong balance sheet and operating performance of the USFRF make this Project very manageable.

**Security/Lien Structure:**
In consideration of the DSO incurring the debt necessary to finance a portion of the costs of the Project, USFRF will ground sublease the Project site to the DSO which will finance and construct the building and master lease the building to USFRF. USFRF will manage and operate the Project and will agree to make lease payments to the DSO equal to 1.30 times the required debt service payments on the Debt. Payments made by USFRF will be secured by a lien on the rental revenues from three existing, unencumbered, office buildings in the USF Research Park and the Project. The DSO is legally authorized to secure the Debt with the revenues to be pledged pursuant to section 1010.62, Florida Statutes.

**Pledged Revenues & Debt Service Coverage:**
The revenues available to pay debt service consist of pledged revenues that will include the revenues from the Project. The pledged and Project’s operating revenues are projected at $5,400,674 in FY22 and $6,296,569 in FY23, which, net of operating expense, yields a net debt service coverage ratio of 1.49x and 1.70x, respectively. (See Historical and Projected Debt Service Coverage)

**Return on Investment:**
The pledged revenues and Project is expected to achieve an internal rate of return (IRR) estimated at 7.5%, based upon assumptions provided by the University. (See Projected IRR)

**Method of Sale:**
The Project Debt will be issued using a taxable, fixed interest rate structure, in the form of Lease Program Revenue Bonds. The DSO is an infrequent issuer without a broad investor base, and the pledge of non-tax-based revenues is considered somewhat weaker (by the market) than a general receipts/obligations pledge. Consequently, based on the analysis of the characteristics of the proposed Project debt, the DSO concluded that a negotiated sale is in the best interest of the University and DSO.
Selection of Professionals: The professionals involved in this transaction were selected through a competitive process. The bond counsel for the Debt will be Bryant Miller Olive P.A. and the financial advisor will be PFM Financial Advisors LLC.

Recommendation:
## Project Account Draw Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Monthly Draw</th>
<th>Project Account Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct-19</td>
<td>$</td>
<td>$0</td>
</tr>
<tr>
<td>Nov-19</td>
<td>$0</td>
<td>27,038,235</td>
</tr>
<tr>
<td>Dec-19</td>
<td>1,502,124</td>
<td>25,536,111</td>
</tr>
<tr>
<td>Jan-20</td>
<td>1,502,124</td>
<td>24,033,987</td>
</tr>
<tr>
<td>Feb-20</td>
<td>1,502,124</td>
<td>22,531,863</td>
</tr>
<tr>
<td>Mar-20</td>
<td>1,502,124</td>
<td>21,029,738</td>
</tr>
<tr>
<td>Apr-20</td>
<td>1,502,124</td>
<td>19,527,614</td>
</tr>
<tr>
<td>May-20</td>
<td>1,502,124</td>
<td>18,025,490</td>
</tr>
<tr>
<td>Jun-20</td>
<td>1,502,124</td>
<td>16,523,366</td>
</tr>
<tr>
<td>Jul-20</td>
<td>1,502,124</td>
<td>15,021,242</td>
</tr>
<tr>
<td>Aug-20</td>
<td>1,502,124</td>
<td>13,519,118</td>
</tr>
<tr>
<td>Sep-20</td>
<td>1,502,124</td>
<td>12,016,993</td>
</tr>
<tr>
<td>Oct-20</td>
<td>1,502,124</td>
<td>10,514,869</td>
</tr>
<tr>
<td>Nov-20</td>
<td>1,502,124</td>
<td>9,012,745</td>
</tr>
<tr>
<td>Dec-20</td>
<td>1,502,124</td>
<td>7,510,621</td>
</tr>
<tr>
<td>Jan-21</td>
<td>1,502,124</td>
<td>6,008,497</td>
</tr>
<tr>
<td>Feb-21</td>
<td>1,502,124</td>
<td>4,506,373</td>
</tr>
<tr>
<td>Mar-21</td>
<td>1,502,124</td>
<td>3,004,248</td>
</tr>
<tr>
<td>Apr-21</td>
<td>1,502,124</td>
<td>1,502,124</td>
</tr>
<tr>
<td>May-21</td>
<td>1,502,124</td>
<td>0</td>
</tr>
</tbody>
</table>

**TOTAL** $27,038,235
## Estimated Sources and Uses of Funds

### USF Research Park Mixed Use Lab and Office Project

### Sources of Funds

<table>
<thead>
<tr>
<th>Source of Funds</th>
<th>Amount</th>
<th>Basis for Amounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond / Loan Proceeds</td>
<td>$27,000,000</td>
<td>Anticipated par amount of fixed rate debt to be issued by USF Financing Corporation at an assumed taxable interest rate of 6.00% for 20 years; in no event to exceed $27,000,000.</td>
</tr>
<tr>
<td>Other Sources of Funds</td>
<td>$15,000,000</td>
<td>Anticipated cash equity contributed by USF Research Foundation</td>
</tr>
</tbody>
</table>

**Total Sources of Funds**

$42,000,000

### Uses of Funds

<table>
<thead>
<tr>
<th>Use of Funds</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Interest to be paid during Construction (Capitalized Interest):</td>
<td>$2,430,000</td>
<td>Represents 18 months of capitalized interest to be paid from debt proceeds at an interest rate of 6.00%.</td>
</tr>
<tr>
<td>Debt Service Reserve Fund</td>
<td>$2,420,000</td>
<td>Represents one year of estimated debt service.</td>
</tr>
<tr>
<td>Costs of Issuance</td>
<td>$111,765</td>
<td>Bond Counsel Fee ($40,000), Financial Advisor Fee ($20,000), and Other Misc. ($51,765).</td>
</tr>
</tbody>
</table>

**Total Uses of Funds**

$42,000,000
### USF Financing Corporation

#### USF Research Park Mixed Use Lab and Office Project

#### Debt Service on Proposed Debt

**Assumptions**

<table>
<thead>
<tr>
<th>Par Amount</th>
<th>$27,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate (%)</td>
<td>6.00%</td>
</tr>
<tr>
<td>Term (Yrs.)</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Beg. Balance</th>
<th>Borrowing</th>
<th>Principal</th>
<th>Interest</th>
<th>Capitalized Interest</th>
<th>Annual Debt Service</th>
<th>End. Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2020</td>
<td>$0</td>
<td>$27,000,000</td>
<td>$0</td>
<td>$810,000</td>
<td>($810,000)</td>
<td>$27,000,000</td>
</tr>
<tr>
<td>1</td>
<td>2021</td>
<td>$27,000,000</td>
<td>$0</td>
<td>$800,000</td>
<td>$1,620,000</td>
<td>($1,620,000)</td>
<td>$0</td>
</tr>
<tr>
<td>2</td>
<td>2022</td>
<td>$27,000,000</td>
<td>$0</td>
<td>$848,000</td>
<td>$1,572,000</td>
<td>$0</td>
<td>$27,000,000</td>
</tr>
<tr>
<td>3</td>
<td>2023</td>
<td>$26,200,000</td>
<td>$0</td>
<td>$898,880</td>
<td>$1,521,120</td>
<td>$0</td>
<td>$24,453,120</td>
</tr>
<tr>
<td>4</td>
<td>2024</td>
<td>$25,352,000</td>
<td>$0</td>
<td>$952,813</td>
<td>$1,467,187</td>
<td>$0</td>
<td>$23,500,307</td>
</tr>
<tr>
<td>5</td>
<td>2025</td>
<td>$24,453,120</td>
<td>$0</td>
<td>$1,009,982</td>
<td>$1,410,018</td>
<td>$0</td>
<td>$22,490,326</td>
</tr>
<tr>
<td>6</td>
<td>2026</td>
<td>$23,500,307</td>
<td>$0</td>
<td>$1,070,580</td>
<td>$1,349,420</td>
<td>$0</td>
<td>$21,419,745</td>
</tr>
<tr>
<td>7</td>
<td>2027</td>
<td>$22,490,326</td>
<td>$0</td>
<td>$1,134,815</td>
<td>$1,285,185</td>
<td>$0</td>
<td>$20,284,930</td>
</tr>
<tr>
<td>8</td>
<td>2028</td>
<td>$21,419,745</td>
<td>$0</td>
<td>$1,202,904</td>
<td>$1,217,096</td>
<td>$0</td>
<td>$19,082,026</td>
</tr>
<tr>
<td>9</td>
<td>2029</td>
<td>$20,284,930</td>
<td>$0</td>
<td>$1,275,078</td>
<td>$1,144,922</td>
<td>$0</td>
<td>$17,806,947</td>
</tr>
<tr>
<td>10</td>
<td>2030</td>
<td>$19,082,026</td>
<td>$0</td>
<td>$1,351,583</td>
<td>$1,068,417</td>
<td>$0</td>
<td>$16,455,364</td>
</tr>
<tr>
<td>11</td>
<td>2031</td>
<td>$17,806,947</td>
<td>$0</td>
<td>$1,432,678</td>
<td>$987,322</td>
<td>$0</td>
<td>$15,022,686</td>
</tr>
<tr>
<td>12</td>
<td>2032</td>
<td>$16,455,364</td>
<td>$0</td>
<td>$1,518,639</td>
<td>$901,361</td>
<td>$0</td>
<td>$13,504,047</td>
</tr>
<tr>
<td>13</td>
<td>2033</td>
<td>$15,022,686</td>
<td>$0</td>
<td>$1,609,757</td>
<td>$810,243</td>
<td>$0</td>
<td>$11,894,290</td>
</tr>
<tr>
<td>14</td>
<td>2034</td>
<td>$13,504,047</td>
<td>$0</td>
<td>$1,706,343</td>
<td>$713,657</td>
<td>$0</td>
<td>$10,187,947</td>
</tr>
<tr>
<td>15</td>
<td>2035</td>
<td>$11,894,290</td>
<td>$0</td>
<td>$1,808,723</td>
<td>$611,277</td>
<td>$0</td>
<td>$8,379,224</td>
</tr>
<tr>
<td>16</td>
<td>2036</td>
<td>$10,187,947</td>
<td>$0</td>
<td>$1,917,247</td>
<td>$502,753</td>
<td>$0</td>
<td>$6,461,978</td>
</tr>
<tr>
<td>17</td>
<td>2037</td>
<td>$8,379,224</td>
<td>$0</td>
<td>$2,032,281</td>
<td>$387,719</td>
<td>$0</td>
<td>$4,429,696</td>
</tr>
<tr>
<td>18</td>
<td>2038</td>
<td>$6,461,978</td>
<td>$0</td>
<td>$2,154,218</td>
<td>$265,782</td>
<td>$0</td>
<td>$2,275,478</td>
</tr>
<tr>
<td>19</td>
<td>2039</td>
<td>$4,429,696</td>
<td>$0</td>
<td>$2,275,478</td>
<td>$136,529</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>20</td>
<td>2040</td>
<td>$2,275,478</td>
<td>$0</td>
<td>$2,275,478</td>
<td>$136,529</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Totals:** $27,000,000 $27,000,000 $21,402,007 ($2,430,000) $45,972,007
USF Financing Corporation
USF Research Park Mixed Use Lab and Office Project

7. A description of the security supporting the repayment of the proposed debt and the lien position the debt will have on that security. If the lien is junior to any other debt, the senior debt must be described. Furthermore, a description of why the debt is proposed to be issued on a junior lien basis must be provided. A statement citing the legal authority for the source of revenues securing repayment must also be provided.

In consideration of the DSO incurring the debt necessary to finance a portion of the costs of the Project, USFRF will ground sublease the Project site to the DSO which will finance and construct the building and master lease the building to USFRF. USFRF will manage and operate the Project and will agree to make lease payments to the DSO equal to 1.30 times the required debt service payments on the debt. Payments made by USFRF will be secured by a lien on the rental revenues from three existing, unencumbered, office buildings in the USF Research Park and the Project. The DSO is legally authorized to secure the debt with the revenues to be pledged pursuant to section 1010.62, Florida Statutes.
STATE OF FLORIDA, BOARD OF GOVERNORS
University of South Florida
USF Financing Corporation - USF Research Park Mixed Use Lab and Office Project
HISTORICAL AND PROJECTED DEBT SERVICE COVERAGE (1)

### USF Research Foundation Estimated

<table>
<thead>
<tr>
<th>FY</th>
<th>Operating Revenues (2)</th>
<th>Total Pledged Operating Revenues</th>
<th>Annual Debt Service:</th>
<th>Estimated Maximum Annual Debt Service</th>
<th>Coverage Ratios:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenues (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Technology Center I (3702 Spectrum Blvd)</td>
<td>$1,022,330</td>
<td>$1,027,988</td>
<td>$1,052,228</td>
<td>$1,075,363</td>
<td>$1,070,109</td>
</tr>
<tr>
<td>University Technology Center II (3650 Spectrum Blvd)</td>
<td>$85,998</td>
<td>$93,723</td>
<td>$86,877</td>
<td>$93,386</td>
<td>$90,828</td>
</tr>
<tr>
<td>New USF Research Mixed Use Lab and Office Project (4)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Operating Revenues</td>
<td>$4,424,042</td>
<td>$5,014,040</td>
<td>$3,824,579</td>
<td>$4,082,427</td>
<td>$4,290,343</td>
</tr>
<tr>
<td>Annual Debt Service:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Existing Debt - Series 2013A (5)</td>
<td>$923,034</td>
<td>$903,194</td>
<td>$981,719</td>
<td>$961,456</td>
<td>$1,044,480</td>
</tr>
<tr>
<td>Existing Debt - Series 2013D (6)</td>
<td>874,683</td>
<td>874,713</td>
<td>50,682</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Proposed - Fixed Rate Taxable Bonds (20 Yr @ 6.00%) (7)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Debt Service</td>
<td>$1,797,717</td>
<td>$1,777,907</td>
<td>$1,032,401</td>
<td>$961,456</td>
<td>$1,044,480</td>
</tr>
<tr>
<td>Estimated Maximum Annual Debt Service</td>
<td>$1,877,907</td>
<td>$1,877,907</td>
<td>$1,044,480</td>
<td>$1,044,480</td>
<td>$1,044,480</td>
</tr>
</tbody>
</table>

### Notes & Assumptions

(1) The financial information related to revenues and expenses was provided by the USF Research Foundation.
(2) Revenue and expense estimates for Fiscal Year 2018-19 are based on actual figures through March 31 plus a projection for the final three months. Revenue and expense projections for Fiscal Year 2021 through 2025 for the existing three buildings are based on annual increases on rental rates of 3%.
(3) Multi-Tenant Office Building (3802 Spectrum Blvd) Revenues declined in FY 2017 due to the departure of a 23,015 square foot tenant - The Charles Stark Draper Laboratory, Inc. The space was subsequently re-leased to new tenants and is currently being renovated. Occupancy for the entire building has returned to 92% as of FY 2019.
(4) The new USF Research Mixed Use Lab and Office Project is expected to be complete in January 2021; however, the financial projections incorporate a more conservative assumption that the building will open in June 2021. Revenue projections for the first full year, FY 2022, are based on a 21% occupancy rate and market rental rates for office space ($27.00/SF) and laboratory space ($30.00/SF). Expense projections for FY 2022 are based on USF's base operations and maintenance factors at the 21% occupancy rate. Revenue and expense projections for FY 2023, FY 2024, FY 2025 and FY 2026 are based on occupancy rates of 42%, 63%, 83% and 95%, respectively, and include a 3% annual escalation rate.
(5) The Series 2013A loan financed the construction of University Technology Center I and II. The loan matures in FY 2020, with a final payment date of December 1, 2019.
(6) The Series 2013D loan financed the construction of the Multi-Tenant Office Building. During FY 2017, USF Research Foundation used $9,525,000 in cash to pay off the loan in advance of its August 1, 2014 maturity.
(7) The proposed debt is anticipated to be issued December 2019 or January 2020 and is based on a par amount of $27,000,000 with a 20 year term at a 6.05% taxable interest rate. The debt, along with a cash contribution from the USF Research Foundation of $15,000,000, will fund the construction of the Project, tenant improvements, a capitalized interest fund, a debt service reserve fund, and an estimated amount for costs of issuance. Debt service for FY 2020 and FY 2021 will be paid from bond proceeds (capitalized interest).

---

759
USF Financing Corporation

USF Research Park Mixed Use Lab and Office Project

Competitive versus Negotiated Sale Analysis

Conclusion and Recommendation Regarding Method of Sale

The USF Financing Corporation proposes to issue debt for the purpose of financing a mixed use laboratory and office building to be located on the USF Research Park (the “Project”). The Board of Governors Debt Management Guidelines require that prior to issuing any debt obligations an analysis be done to assess the relative benefits of a negotiated sale versus a competitive sale.

While the Debt related to the Project is anticipated to be issued using a fixed interest rate, the current state of the economy has resulted in changing investor demand. The pledge of non-tax based revenues is considered more speculative and vulnerable compared to a general receipts or general obligation pledge of the University. The Project’s pro forma is primarily based on certain assumptions and growth projections; thus, the view of the pledge will be somewhat uncertain. Additionally, the USF Financing Corporation is an infrequent issuer and does not have a broad investor base.

Based on the analysis of the characteristics of the proposed USF Research Park Mixed Use Lab and Office Project, USFFC has concluded that a negotiated sale is in the best interest of the University and the Financing Corporation.
## Competitive vs. Negotiated Sales: Analysis of Conditions Favoring Each Method of Sale  
**USF Financing Corporation, USF Research Park Mixed Use Lab and Office Project**

<table>
<thead>
<tr>
<th>Debt Structure</th>
<th>Conditions Favoring a Competitive Sale</th>
<th>Conditions Favoring a Negotiated Sale</th>
<th>Sale Type Favored By Conditions</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pledged Revenues</td>
<td>General Obligation or Strong Revenue Stream</td>
<td>Non-tax based or Project Supported Revenues</td>
<td>N</td>
<td>The pledged payments are classified as non-tax based, project supported revenue. Florida law does not allow the University to issue general obligation bonds and/or permit the pledging of student tuition revenues (i.e. a “general receipts pledge” that includes all non-State revenues of the University). Due to the limited pledge of the rental revenues, lack of a security interest in assets of the University and/or the land, and the lack of a tax-based revenue pledge, this gross revenue pledge is a weaker pledge and is considered more speculative and vulnerable than a general obligation or general receipts pledge.</td>
</tr>
<tr>
<td>Security Structure</td>
<td>Conventional resolution and cash flow: Rate Covenant and Coverage</td>
<td>Unusual or weak covenants</td>
<td>C</td>
<td>The Debt will be secured by a lien on lease payments to be made by the USF Research Foundation to the USF Financing Corporation to include rental revenues. USF Research Foundation will manage and operate the Project and will agree to make lease payments to the Financing Corporation equal to 1.30 times the required debt service payments on the debt.</td>
</tr>
<tr>
<td>Debt Instrument</td>
<td>Traditional Serial and Term Bonds, Semi-annual Interest and Annual Maturities</td>
<td>Use of Innovative Structuring, Structure to Attract Particular Investors</td>
<td>N/C</td>
<td>It is anticipated that the Debt will be structured as a privately placed bank loan and will bear interest at a taxable rate given the high level of for-profit tenants.</td>
</tr>
<tr>
<td>Size</td>
<td>A transaction the size of which the market is used to and can comfortably manage.</td>
<td>A large size which the market cannot readily handle without the need to consolidate syndicates</td>
<td>N</td>
<td>The anticipated $27,000,000 issue may be challenging for a single bank.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit Quality</th>
<th>Conditions Favoring a Competitive Sale</th>
<th>Conditions Favoring a Negotiated Sale</th>
<th>Sale Type Favored By Conditions</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating</td>
<td>‘A’ or better</td>
<td>Below Single A</td>
<td>N</td>
<td>The Debt is anticipated to be issued as a private placement with a bank; thus, it is not anticipated that an underlying rating will be sought from the rating agencies.</td>
</tr>
<tr>
<td>Outlook</td>
<td>Stable</td>
<td>Uncertain, Vulnerable or weak</td>
<td>N</td>
<td>Due to the pledge of rental revenues and the facility lease structure, the market’s reaction to the Debt outlook will likely be stable. However, because the Project’s pro forma is based on certain assumptions and growth projections, the view of the pledge will be somewhat uncertain.</td>
</tr>
<tr>
<td><strong>Issuer Characteristics</strong></td>
<td><strong>Conditions Favoring a Competitive Sale</strong></td>
<td><strong>Conditions Favoring a Negotiated Sale</strong></td>
<td><strong>Sale Type Favored By Conditions</strong></td>
<td><strong>Explanation</strong></td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------------------------------</td>
<td>------------------------------------------</td>
<td>-----------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>Type of organization</strong></td>
<td>Well Known Broad-based General Purpose Borrower</td>
<td>Special Purpose, Independent Authority</td>
<td>N</td>
<td>There is implied credit strength for the Financing Corporation Debt from the University. However, the Financing Corporation is the borrower, not the University, which increases the need for pre-marketing efforts for the transaction. Also, the Debt is not a general obligation of the State of Florida, the University or the Financing Corporation.</td>
</tr>
<tr>
<td><strong>Frequency of issuance</strong></td>
<td>Regular borrower in the public market</td>
<td>New or infrequent issuer</td>
<td>N</td>
<td>The USF Financing Corporation is an infrequent issuer in the public market.</td>
</tr>
<tr>
<td><strong>Market Conditions</strong></td>
<td><strong>Conditions Favoring a Competitive Sale</strong></td>
<td><strong>Conditions Favoring a Negotiated Sale</strong></td>
<td><strong>Sale Type Favored By Conditions</strong></td>
<td><strong>Explanation</strong></td>
</tr>
<tr>
<td><strong>Market Awareness</strong></td>
<td>Active Secondary Market with broad Investor Base</td>
<td>Little or no institutional Awareness of Issuer</td>
<td>N/C</td>
<td>While the Financing Corporation has a considerable amount of bonds outstanding in the public market, it does not have a broad investor base.</td>
</tr>
<tr>
<td><strong>Interest Rates</strong></td>
<td>Stable/Predictable Market</td>
<td>Volatile or declining market</td>
<td>N</td>
<td>The financial markets have been volatile, especially recently with concerns over trade tariffs. A negotiated sale provides flexibility to access the market during favorable times of strong demand.</td>
</tr>
<tr>
<td><strong>Supply and Demand</strong></td>
<td>Strong Investor Demand, Good Liquidity, Light Forward Calendar</td>
<td>Oversold Market/heavy supply</td>
<td>N/C</td>
<td>As interest rates change periodically, and in most cases frequently, the importance of accessing the market during favorable times of strong demand is significant.</td>
</tr>
<tr>
<td><strong>Changes or anticipated changes in the law</strong></td>
<td>No recent changes or anticipated changes</td>
<td>Recent changes which the market has not adapted to and which would require additional marketing efforts to explain.</td>
<td>N</td>
<td>While there have not been recent changes to Florida law regarding the issuance of debt by universities and their direct support organizations, the recent changes in federal law continue to affect the market. A negotiated sale allows for additional marketing efforts to explain the potential impact of such changes in law on the debt issued.</td>
</tr>
</tbody>
</table>
USF Board of Trustees
June 6, 2019

Issue: DSO Annual Financial Plans for FY 2020

Proposed action: Approve DSO Annual Financial Plans for FY 2020

Executive Summary:

The Direct Support Organizations of the University of South Florida (DSOs) have prepared their Annual Financial Plans for FY 2020 for review and approval by the USF Board of Trustees, pursuant to Florida Statutes and DSO Bylaws.

Each DSO has provided a Financial Plan Statement which includes the Corporation’s mission, key drivers for improvements in the FY 2020 Plan over prior year, material capital expenditures, key risks for the FY 2020 Plan, and major initiatives for FY 2021 and FY 2022.

The Financial Plans, comprised of both Income Statement and Statement of Cash Flows, include a comparison of Net Operating Profit and Net Cash Position for the FY 2020 Financial Plan to the current FY 2019 Forecast, and also provide the original FY 2019 Financial Plan that was approved by the BOT Finance Committee at its May 22, 2018 Meeting, and Actuals for FY 2018 and FY 2017. The Financial Plans also include a three-year forecast.

DSOs are governed by independent Boards of Directors. DSOs have obtained approval of their FY 2020 Financial Plan from their Board or DSO Finance / Audit Committee in advance of this meeting.

The DSOs are:

1. University Medical Services Association, Inc. & USF Medical Services Support Corporation
2. USF Foundation, Inc.
3. USF Research Foundation, Inc.
4. Sun Dome, Inc.
5. USF Institute for Applied Engineering
6. USF Health Professions Conferencing Corporation
7. USF Alumni Association, Inc.
8. USF Financing Corporation & USF Property Corporation
Financial Impact:

The Direct Support Organizations of the University of South Florida (DSO) are organized and operated exclusively to assist the University achieve excellence by providing supplemental resources from private gifts and bequests and valuable education support services. These organizations are authorized by Florida Statute 1004.28 to receive, hold and administer property and make expenditures for the University.

Strategic Goal(s) Item Supports: Goal 4: Sound Financial Management
Workgroup Review Date: Finance Committee - May 14, 2019
Supporting Documentation Online (please circle): Yes No
DSO Annual Financial Plans for FY 2020
USF System or Institution specific: USF System
Prepared by: Fell L. Stubbs, University Treasurer, (813) 974-3298
DIRECT SUPPORT ORGANIZATIONS

ANNUAL FINANCIAL PLANS

FISCAL YEAR 2020

May 14, 2019
DSO Annual Financial Plans for FY 2020

INDEX

University Medical Services Association, Inc. and Medical Services Support Corporation, Inc. .................................................... 1-5

USF Foundation, Inc. ........................................................................................................................................................................ 6-10

USF Research Foundation, Inc. ........................................................................................................................................................... 11-14

Sun Dome Inc. .................................................................................................................................................................................. 15-18

USF Institute of Applied Engineering ........................................................................................................................................... 19-22

USF Health Professions Conferencing Corporation ..................................................................................................................... 23-27

USF Alumni Association, Inc. ....................................................................................................................................................... 28-31

USF Financing Corporation and USF Property Corporation ........................................................................................................... 32-36
UMSA/MSSC Combined
Annual Financial Plan for FY 2020

FINANCIAL PLAN STATEMENT

State the DSO's Statutory Mission which Supports the Goals of the University

- University Medical Service Association, Inc. (UMSA) is organized as a not for profit, university faculty practice plan. Pursuant to UMSA's operations and activities, exclusively for the support and benefit of the University of South Florida (USF) and its Health Sciences Center, USF Health, the specific purposes for which UMSA is organized shall include the collection, administration and distribution of funds exclusively for the support of the clinical, education and research objectives of USF Health and the University in accordance with the USF Health Faculty Practice Plan regulations.

- Medical Services Support Corporation (MSSC) is organized as a not for profit organized to operate a health care consortium which supports and enhances the University of South Florida's (USF's) approved programs of education, research and service.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- Overall, UMSA/MSSC continues to meet its financial targets and improve its operating margin and cash position presented to the Board of Trustees in 2015. UMSA/MSSC is now generating positive operating margins and cash flows and is therefore rebuilding its cash reserves.

- UMSA/MSSC is assuming a stable operating margin and an improvement in cash flow in FY2020 over FY2019. This is based on the following assumptions:

1. Total revenues will increase 4% or $14M due to:
   a. Patient Service Revenue is projected to grow at 5% or almost $10M due to mostly organic growth (3%) and revenue optimization initiatives (2%).
   b. Grants, Contracts & Awards and Other Revenue are projected to decrease primarily due to contract revenue with TGH remaining flat and the practice plan not receiving additional academic support from state dollars.
   c. UMSA will receive new incremental Medicaid Physicians Supplemental (UPL) and Low Income Pool (LIP) payments of $6M due to an increasing rate. For this rate, the State of Florida will require the practice plan to demonstrate a return to the State on patient outcomes and costs. Plans are currently under development to meet the State's needs.

2. Total expenses will increase 5% or $15M due to:
   a. Growth in the clinical enterprise through faculty recruitment and new clinical staff and associated other operating costs ($15.7M). This equates to approximately an additional 20 clinical faculty and almost 50 clinical staff to support the growing clinical operations.
   b. Reduction in support for HPCC of $700K. HPCC is performing much better financially and therefore requires less support from the Dean in FY2020.
   c. UMSA also has a few departments under stress due to unexpected physician departures and/or restructuring of clinical operations. These challenges require investment by UMSA and therefore causes costs to increase faster than revenues.

3. Cash and Investments are expected to grow by 13% or almost $5.5M due to:
   a. Positive cash from operations of almost $10.5M, investments of $(6.0)M and financing of $(2.0)M.
   b. The rate of increasing cash from FY2019 to FY2020 will slow by 67% or almost $5M primarily due to an increasing UPL/LIP receivable.
   c. UMSA will also continue to move more cash from its operating account to its investments to ensure compliance with UMSA Investment Committee requirements.
Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- There are no material capital expenditures planned for FY2020 outside of space renovations or normal equipment replacements and break and fix.

Identify Key Risks That Might Affect the 2020 Financial Plan

- CMS and State not approving the incremental increase in UPL and LIP.
- The amount of program investment in the medically underserved population will impact potential margins and cash reserves. CMS and AHCA will require some form of investment to demonstrate our commitment to serving the needs of this population.
- The success of clinical departments achieving the margin targets assigned to them, including those clinical departments under stress.

List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022

- UPL and LIP will continue to be a major contribution to the bottom line of UMSA/MSSC through 2022. UMSA/MSSC will have to demonstrate investment in improving access and outcomes of this medically underserved population. Therefore, Days Cash on Hand may be affected by the decisions made by the organization to invest in serving the needs of this population.
- The ability of the organization to improve ASC and Imaging bottom-lines will have a significant impact on the achievement of the projected margins. USF Health will need to decide whether the projected improvements can be achieved on our own or with a partner.
- The joint venture discussion with Tampa General Hospital will have a significant impact on the practice plan past FY2020 if successful.
# INCOME STATEMENT

(All amounts in thousands)

## REVENUES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Patient Service</td>
<td>$200,146</td>
<td>$190,230</td>
<td>$9,916</td>
<td>5%</td>
<td>$185,751</td>
<td>$172,391</td>
</tr>
<tr>
<td>Grants, Contracts &amp; Awards</td>
<td>75,861</td>
<td>75,110</td>
<td>751</td>
<td>1%</td>
<td>72,217</td>
<td>22,606</td>
</tr>
<tr>
<td>UPL</td>
<td>32,290</td>
<td>26,290</td>
<td>6,000</td>
<td>23%</td>
<td>22,560</td>
<td>7,329</td>
</tr>
<tr>
<td>Other Revenue</td>
<td>37,800</td>
<td>40,438</td>
<td>(2,638)</td>
<td>(7)%</td>
<td>34,758</td>
<td>39,458</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td><strong>$346,097</strong></td>
<td><strong>$332,068</strong></td>
<td><strong>$14,029</strong></td>
<td><strong>4%</strong></td>
<td><strong>$315,286</strong></td>
<td><strong>$303,227</strong></td>
</tr>
</tbody>
</table>

## EXPENSES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Support</td>
<td>$120,410</td>
<td>$114,183</td>
<td>$6,227</td>
<td>5%</td>
<td>$112,415</td>
<td>$112,135</td>
</tr>
<tr>
<td>Housestaff Support</td>
<td>11,982</td>
<td>11,618</td>
<td>365</td>
<td>3%</td>
<td>11,128</td>
<td>11,922</td>
</tr>
<tr>
<td>Other Staff Support</td>
<td>76,736</td>
<td>72,838</td>
<td>3,898</td>
<td>5%</td>
<td>70,903</td>
<td>65,467</td>
</tr>
<tr>
<td>Depreciation/Amortization</td>
<td>4,518</td>
<td>4,714</td>
<td>(195)</td>
<td>(4)%</td>
<td>5,400</td>
<td>4,824</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>57,785</td>
<td>54,456</td>
<td>3,329</td>
<td>6%</td>
<td>50,129</td>
<td>49,737</td>
</tr>
<tr>
<td>University Support - Salaries</td>
<td>59,658</td>
<td>57,514</td>
<td>2,144</td>
<td>4%</td>
<td>54,135</td>
<td>46,495</td>
</tr>
<tr>
<td>DSO Support - HPCC Salaries</td>
<td>310</td>
<td>1,000</td>
<td>(690)</td>
<td>(69)%</td>
<td>790</td>
<td>1,035</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$331,400</strong></td>
<td><strong>$316,321</strong></td>
<td><strong>$15,078</strong></td>
<td><strong>5%</strong></td>
<td><strong>$304,900</strong></td>
<td><strong>$298,859</strong></td>
</tr>
</tbody>
</table>

## OPERATING PROFIT BEFORE NON-CASH CHANGES

<table>
<thead>
<tr>
<th></th>
<th>FY 2019 Financial Results</th>
<th>FY 2018 Financial Results</th>
<th>FY 2017 Financial Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Profit Before Non-Cash Changes</strong></td>
<td><strong>$14,698</strong></td>
<td><strong>$15,747</strong></td>
<td><strong>$(1,049)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>FY 2019 Financial Results</th>
<th>FY 2018 Financial Results</th>
<th>FY 2017 Financial Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to MCOM - Downtown</td>
<td>3,000</td>
<td>60%</td>
<td>0</td>
</tr>
<tr>
<td>Unrealized Investment Gains (Losses)</td>
<td>954</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>Change in Fair Value of Swaps</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Non-Cash Impact of Epic Conversion</td>
<td>1,300</td>
<td>(172)%</td>
<td>1,300</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td><strong>$(3,131)</strong></td>
<td><strong>$(4,378)</strong></td>
<td><strong>$1,247</strong></td>
</tr>
</tbody>
</table>

## NET OPERATING PROFIT

<table>
<thead>
<tr>
<th></th>
<th>FY 2019 Financial Results</th>
<th>FY 2018 Financial Results</th>
<th>FY 2017 Financial Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net Operating Profit</strong></td>
<td><strong>$11,567</strong></td>
<td><strong>$11,369</strong></td>
<td><strong>$198</strong></td>
</tr>
</tbody>
</table>

Operating Profit Margin: 4% 5% 0% 3% 1% -1%

---

UMSA/MSSC Combined
Annual Financial Plan for FY 2020

---

Board of Trustees Regular Meeting - New Business - Consent Agenda
# UMSA/MSSC Combined

## Annual Financial Plan for FY 2020

### STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$11,567</td>
<td>$198</td>
<td>2%</td>
<td>$11,686</td>
<td>$4,162</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation/Amortization</td>
<td>4,518</td>
<td>4,714</td>
<td>(195) (4)%</td>
<td>5,400</td>
<td>4,824</td>
</tr>
<tr>
<td>Non Cash Impact of EPIC</td>
<td>1,131</td>
<td>(1,576)</td>
<td>2,707 172%</td>
<td>(1,300)</td>
<td>931</td>
</tr>
<tr>
<td>Unrealized Gains</td>
<td>0</td>
<td>954</td>
<td>(954) (100)%</td>
<td>(289)</td>
<td>(725)</td>
</tr>
<tr>
<td>Adjustments for Changes in Operating Assets and Liabilities</td>
<td>-6,769</td>
<td>466</td>
<td>(7,235) 1553%</td>
<td>466</td>
<td>(289)</td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$10,447</td>
<td>$15,926</td>
<td>$(5,479) (34)%</td>
<td>$16,252</td>
<td>$8,903</td>
</tr>
</tbody>
</table>

| **INVESTING ACTIVITIES** |                                 |          |                        |                        |                        |
| Capital Expenditures    | $(3,000)                        | $225     | 7%                     | $(4,750)               | $(2,563)               | $(1,873)               |
| Net (Purchases) Sales of Investments | (3,000) | 0 | 0% | 0 | (9,828) | 13,382 |
| Total Cash From Investing Activities | $(6,000) | $(6,225) | $225 4% | $(4,750) | $(12,391) | $11,509 |

| **FINANCING ACTIVITIES** |                                 |          |                        |                        |                        |
| Proceeds of Long-Term Debt | $0                              | $0       | 0%                     | $0                     | $0                     | $0                     |
| Lease Payments to USFFC on MOBs | (2,000) | 262 | 12% | (2,262) | (2,310) | (2,368) |
| Total Cash From Financing Activities | $(2,000) | $(2,262) | $262 12% | $(2,262) | $(2,310) | $(2,368) |

| **CHANGE IN CASH** |                                 |          |                        |                        |                        |
| Cash, Beginning of Year | 14,100                         | 6,661    | 7,439 112%            | 7,085                  | 12,459                 | 8,922                  |
| Cash, End of Year      | $16,547                        | $14,100  | $2,447 17%            | $16,325                | $6,661                 | $12,459                |
| Total Cash & Investments | $47,534                        | $42,087  | $5,447 13%            | $41,312                | $28,119                | $23,448                |
| Days Cash on Hand      | 53                              | 49       | 3 7%                  | 51                     | 35                     | 31                     |
### 3-YEAR FORECAST

<table>
<thead>
<tr>
<th>(In thousands)</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$23,448</td>
<td>$28,119</td>
<td>$42,087</td>
<td>$47,534</td>
<td>$53,487</td>
<td>$60,185</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>58,326</td>
<td>56,065</td>
<td>54,576</td>
<td>53,086</td>
<td>51,505</td>
<td>49,971</td>
</tr>
<tr>
<td>Other Assets</td>
<td>56,768</td>
<td>65,929</td>
<td>61,617</td>
<td>64,698</td>
<td>67,933</td>
<td>71,329</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$138,542</td>
<td>$150,113</td>
<td>$158,280</td>
<td>$165,318</td>
<td>$172,925</td>
<td>$181,486</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables</td>
<td>$6,257</td>
<td>$8,449</td>
<td>$6,617</td>
<td>$6,608</td>
<td>$6,729</td>
<td>$6,852</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>53,528</td>
<td>51,176</td>
<td>48,914</td>
<td>46,652</td>
<td>44,390</td>
<td>42,238</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>13,931</td>
<td>18,699</td>
<td>19,592</td>
<td>15,279</td>
<td>13,599</td>
<td>12,105</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$73,716</td>
<td>$78,324</td>
<td>$75,123</td>
<td>$68,539</td>
<td>$64,718</td>
<td>$61,194</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td>$64,826</td>
<td>$71,788</td>
<td>$83,157</td>
<td>$96,779</td>
<td>$108,206</td>
<td>$120,291</td>
</tr>
<tr>
<td><strong>Days Cash on Hand</strong></td>
<td>31</td>
<td>35</td>
<td>49</td>
<td>3</td>
<td>57</td>
<td>60</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Patient Service</td>
<td>$166,362</td>
<td>$172,391</td>
<td>$190,230</td>
<td>$200,146</td>
<td>$211,726</td>
<td>$223,977</td>
</tr>
<tr>
<td>Grants, Contracts &amp; Awards</td>
<td>68,336</td>
<td>72,454</td>
<td>75,110</td>
<td>75,861</td>
<td>76,615</td>
<td>77,376</td>
</tr>
<tr>
<td>UPL</td>
<td>7,329</td>
<td>22,606</td>
<td>26,290</td>
<td>32,290</td>
<td>26,290</td>
<td>21,405</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>49,493</td>
<td>47,260</td>
<td>52,805</td>
<td>37,800</td>
<td>49,500</td>
<td>64,821</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$291,520</td>
<td>$314,711</td>
<td>$344,435</td>
<td>$346,097</td>
<td>$364,131</td>
<td>$387,579</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty Support</td>
<td>$102,578</td>
<td>$112,135</td>
<td>$114,274</td>
<td>$120,410</td>
<td>$122,938</td>
<td>$125,519</td>
</tr>
<tr>
<td>Housestaff Support</td>
<td>11,723</td>
<td>11,922</td>
<td>11,618</td>
<td>11,982</td>
<td>11,806</td>
<td>11,632</td>
</tr>
<tr>
<td>Other Staff Support</td>
<td>67,992</td>
<td>65,467</td>
<td>72,838</td>
<td>76,736</td>
<td>78,171</td>
<td>79,633</td>
</tr>
<tr>
<td>Depreciation/Amortization</td>
<td>5,397</td>
<td>4,824</td>
<td>4,714</td>
<td>4,518</td>
<td>5,581</td>
<td>6,894</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>59,707</td>
<td>60,669</td>
<td>66,823</td>
<td>57,785</td>
<td>66,107</td>
<td>75,628</td>
</tr>
<tr>
<td>University Support - Salaries</td>
<td>46,495</td>
<td>54,291</td>
<td>57,514</td>
<td>59,658</td>
<td>65,530</td>
<td>71,980</td>
</tr>
<tr>
<td>DSO Support - HPCC Salaries</td>
<td>1,530</td>
<td>1,035</td>
<td>909</td>
<td>310</td>
<td>250</td>
<td>202</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$295,422</td>
<td>$310,342</td>
<td>$328,688</td>
<td>$331,400</td>
<td>$350,383</td>
<td>$371,487</td>
</tr>
<tr>
<td>Operating Profit Before Non-Cash Changes</td>
<td>$(3,902)</td>
<td>$4,368</td>
<td>$15,747</td>
<td>$14,698</td>
<td>$13,748</td>
<td>$16,092</td>
</tr>
<tr>
<td>Total Non-Cash Changes</td>
<td>$497</td>
<td>$(206)</td>
<td>$(4,378)</td>
<td>$(3,131)</td>
<td>$(1,000)</td>
<td>$(1,000)</td>
</tr>
<tr>
<td>NET OPERATING PROFIT</td>
<td>$(3,405)</td>
<td>$4,162</td>
<td>$11,369</td>
<td>$11,567</td>
<td>$12,748</td>
<td>$15,092</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>-1%</td>
<td>1%</td>
<td>5%</td>
<td>4%</td>
<td>4%</td>
<td>4%</td>
</tr>
</tbody>
</table>
FINANCIAL PLAN STATEMENT

State the DSO's Statutory Mission which Supports the Goals of the University

- The University of South Florida Foundation aids and promotes excellence in the educational, research and service activities of USF by seeking, receiving and administering private gifts for the benefit of the University. We enhance resources that support the strategic objectives of the University of South Florida System within a culture of cooperation and collaboration.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- The USF Foundation's ambitious USF: Unstoppable Campaign ended June 30th of fiscal year 2018 raising a historic $1.1 billion to support the USF System. The Foundation remains as committed and energized as ever with a goal of $100 million for fiscal year 2019, to facilitate the crucial impact of philanthropy on the USF System through engaging alumni and friends.

- The Foundation's Investment Committee continues to actively monitor the performance and liquidity of our asset allocation and investment managers and take action when appropriate to enhance the growth and benefit of the endowment to USF over a long-term horizon. Our short-term and long-term returns are consistently in the top quartile amongst our peers. Our goal is to grow the endowment next year through continued solid investment returns and gifts.

- The Foundation supports program activities of the University for USF faculty & staff, student scholarships, research initiatives, and capital projects according to donor restrictions. These expenses can be funded by current gifts estimated on the annual plan, existing balances in accounts from gifts and distributions received in prior years, or projected endowment distributions during the year of about $17.7 million. With the assistance of the Foundation, spending from these sources is directed by the colleges and units designated by our donors as the beneficiaries of their gifts.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- The Foundation receives contributions to support capital improvements on behalf of the USF System. As these capital projects commence, funds are provided to USF Facilities Planning for expenditure. Fundraising efforts related to capital projects for the USF Health Downtown Expansion, Athletics Football Center and the Honors College are expected to be provided to the university during FY20.

Identify Key Risks That Might Affect the 2020 Financial Plan

- Budget fluctuations experienced by the USF System have led to varying levels of reliance and utilization of Foundation funds. While Foundation sources of support like the endowment provide a small percentage of the System's overall budget, this source is critical for many University programs while providing a funding catalyst for others to achieve the University's goals and aspirations.

- The Investment Committee prudently considers market volatility risk associated with each asset class in balance with potential rates of return when conducting its annual review of the endowment asset allocation. The goal of this process is to minimize the volatility of the investment performance and provide a more consistent, reliable stream of income to the University.

- University support of Foundation personnel is essential to continue the high level of fundraising as demonstrated through the Unstoppable Campaign. The Foundation's cost to raise a dollar remained low at 16 cents per dollar during the length of the Unstoppable Campaign. In other words, for every dollar invested in fundraising during the Campaign, the Foundation has raised over six dollars in return.

- Due to a legislative change made to the governance structure of university direct support organizations during 2018, the Foundation will be required to convert from Financial Accounting Standards to standards set by the Governmental Accounting Standards Board (GASB). The FY19 forecast and FY20 financial plan reflect the anticipated changes as a result of this conversion to report under the GASB reporting model. The impact of this conversion is anticipated to result in approximately $32 million decrease in total assets, $21 million increase to liabilities with an overall decrease in net position of $53 million.
List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022

- The Foundation will continue to support the University's goal surrounding its Student Success initiative with fundraising for scholarships and fellowships. During the Campaign, the Foundation secured several transformational gifts to the university including naming of the Muma College of Business, the Kate Tiedemann College of Business at USF St Pete, the Lynn Pippenger School of Accountancy, the Zimmerman School of Advertising and Mass Communications, Collier Student Success Center in the Muma College of Business and Pippenger Hall in the USF St Pete Kate Tiedemann College of Business. These gifts will attract faculty and students globally and provide for greater learning and career opportunities for students.

- Research and Innovation is continually supported through the Foundation's efforts in securing philanthropic, private research grants. During the Unstoppable Campaign approximately $52.9 million in philanthropic grants were received to support research efforts in areas such as Health, Engineering and Education. In addition, Endowed Chair and Professorship funds provide a predictable, steady stream of earnings to support the Chair or Professors' research efforts in perpetuity.

- Cultivating university partnerships, both public and private, is a goal of the Foundation. The generosity of our donors ensures an environment rich in research, teaching, learning and discovery. The Foundation has captivated the attention of donors with the exciting opportunities to become highly visible partners of USF Health Morsani College of Medicine and the USF Heart Institute, as they relocate and construct a state of the art facility on donated property in the Channelside area of downtown Tampa.

- The Foundation enhances the economic base for USF through the annual support generated from the Foundation's endowment. The endowment provides over $17 million each year to support USF faculty, students and programs. The endowment along with other gifts for current operations provides over $49 million in annual support to USF.
### INCOME STATEMENT

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gift &amp; Donations</td>
<td>$48,100</td>
<td>$47,600</td>
<td>$501</td>
<td>$51,100</td>
<td>$56,330</td>
<td>$38,867</td>
</tr>
<tr>
<td>Investment Income (Loss)</td>
<td>47,668</td>
<td>17,875</td>
<td>29,793</td>
<td>167%</td>
<td>45,263</td>
<td>52,617</td>
</tr>
<tr>
<td>University Support</td>
<td>12,450</td>
<td>12,427</td>
<td>23</td>
<td>0%</td>
<td>12,427</td>
<td>12,680</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>551</td>
<td>550</td>
<td>1</td>
<td>0%</td>
<td>970</td>
<td>1,250</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$108,769</td>
<td>$78,452</td>
<td>$30,318</td>
<td>39%</td>
<td>$109,760</td>
<td>$122,877</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$24,915</td>
<td>$24,668</td>
<td>$247</td>
<td>1%</td>
<td>$24,665</td>
<td>$21,850</td>
</tr>
<tr>
<td>Scholarship &amp; Fellowship</td>
<td>7,792</td>
<td>7,715</td>
<td>77</td>
<td>1%</td>
<td>7,713</td>
<td>9,723</td>
</tr>
<tr>
<td>Service &amp; Independent contractors</td>
<td>5,273</td>
<td>5,170</td>
<td>103</td>
<td>2%</td>
<td>5,169</td>
<td>4,187</td>
</tr>
<tr>
<td>Supplies</td>
<td>1,203</td>
<td>1,191</td>
<td>12</td>
<td>1%</td>
<td>1,193</td>
<td>980</td>
</tr>
<tr>
<td>Other Transfers &amp; Expenses</td>
<td>29,064</td>
<td>10,362</td>
<td>18,702</td>
<td>180%</td>
<td>10,159</td>
<td>10,933</td>
</tr>
<tr>
<td><strong>Total Program Service Expense</strong></td>
<td>$68,247</td>
<td>$49,106</td>
<td>$19,141</td>
<td>39%</td>
<td>$48,899</td>
<td>$47,673</td>
</tr>
<tr>
<td>Fundraising &amp; Operating Expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>14,727</td>
<td>14,581</td>
<td>146</td>
<td>1%</td>
<td>$14,402</td>
<td>$14,501</td>
</tr>
<tr>
<td>Service &amp; Independent contractors</td>
<td>2,074</td>
<td>1,028</td>
<td>1,046</td>
<td>102%</td>
<td>778</td>
<td>1,037</td>
</tr>
<tr>
<td>Other Transfers &amp; Expenses</td>
<td>1,900</td>
<td>1,440</td>
<td>460</td>
<td>32%</td>
<td>1,900</td>
<td>1,328</td>
</tr>
<tr>
<td><strong>Total Fundraising &amp; Operating Expenses</strong></td>
<td>18,700</td>
<td>17,049</td>
<td>1,651</td>
<td>10%</td>
<td>17,080</td>
<td>17,366</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$86,947</td>
<td>$66,155</td>
<td>$20,792</td>
<td>31%</td>
<td>$65,979</td>
<td>$65,039</td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-CASH CHANGES</strong></td>
<td>$21,822</td>
<td>$12,297</td>
<td>$9,526</td>
<td>77%</td>
<td>$43,781</td>
<td>$57,838</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>%</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$21,822</td>
<td>$12,297</td>
<td>$9,526</td>
<td>77%</td>
<td>$43,781</td>
<td>$57,838</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>20%</td>
<td>16%</td>
<td>4%</td>
<td>40%</td>
<td>47%</td>
<td>46%</td>
</tr>
</tbody>
</table>
### USF FOUNDATION, INC.
Annual Financial Plan for FY 2020

#### STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FINANCIAL</td>
<td>ESTIMATE</td>
<td></td>
<td>PLAN</td>
<td>ACTUAL RESULTS</td>
<td>ACTUAL RESULTS</td>
</tr>
<tr>
<td></td>
<td>(as of 3/31/19)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPERATING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$21,822</td>
<td>$12,297</td>
<td>$9,526</td>
<td>77 %</td>
<td>$43,781</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment (gains) losses</td>
<td>(23,407)</td>
<td>(45,015)</td>
<td>21,608</td>
<td>48 %</td>
<td>(45,263)</td>
</tr>
<tr>
<td>Change in assets &amp; liabilities</td>
<td>3,246</td>
<td>3,594</td>
<td>(348)</td>
<td>(10)%</td>
<td>(6,171)</td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$1,661</td>
<td>$(29,125)</td>
<td>$30,786</td>
<td>106 %</td>
<td>$7,653</td>
</tr>
<tr>
<td>INVESTING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Expenditures</td>
<td>$(475)</td>
<td>$(595)</td>
<td>$120</td>
<td>20 %</td>
<td>$(650)</td>
</tr>
<tr>
<td>Net (Purchases) Sales of Investments</td>
<td>6,054</td>
<td>3,205</td>
<td>2,849</td>
<td>89 %</td>
<td>13,932</td>
</tr>
<tr>
<td>Interest dividends reinvested</td>
<td>(6,436)</td>
<td>(5,621)</td>
<td>(815)</td>
<td>(14)%</td>
<td>(4,989)</td>
</tr>
<tr>
<td>Total Cash From Investing Activities</td>
<td>$(857)</td>
<td>$(3,011)</td>
<td>$2,154</td>
<td>72 %</td>
<td>$8,293</td>
</tr>
<tr>
<td>FINANCING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal Paid on Debt</td>
<td>$(360)</td>
<td>$(350)</td>
<td>$(10)</td>
<td>(3)%</td>
<td>$(371)</td>
</tr>
<tr>
<td>Total Cash From Financing Activities</td>
<td>$(360)</td>
<td>$(350)</td>
<td>$(10)</td>
<td>(3)%</td>
<td>$(371)</td>
</tr>
<tr>
<td>CHANGE IN CASH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>444</td>
<td>962</td>
<td>$(518)</td>
<td>(54)%</td>
<td>269</td>
<td>222</td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>1,987</td>
<td>1,025</td>
<td>962</td>
<td>94 %</td>
<td>1,191</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>$2,431</td>
<td>$1,987</td>
<td>$444</td>
<td>22 %</td>
<td>$1,460</td>
</tr>
</tbody>
</table>

| Total Cash & Investments | $93,688 | $105,047 | $(11,359) | (11)% | $83,319 | $83,867 | $80,084 |
| Days Cash on Hand | 393 | 580 | (186) | (32)% | 461 | 472 | 458 |

Variance

- Balance Sheet
- Cash Flow Statement
- Reconciliation of net income to cash flows from operating activities

**Board of Trustees Regular Meeting - New Business - Consent Agenda**
## 3-YEAR FORECAST

(In thousands)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash &amp; Investments</td>
<td>$80,084</td>
<td>$83,867</td>
<td>$105,047</td>
<td>$93,688</td>
<td>$88,405</td>
<td>$90,173</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>9,732</td>
<td>10,003</td>
<td>10,915</td>
<td>10,855</td>
<td>10,795</td>
<td>10,735</td>
</tr>
<tr>
<td>Other Assets</td>
<td>544,203</td>
<td>602,625</td>
<td>558,882</td>
<td>597,093</td>
<td>636,554</td>
<td>674,747</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$634,019</td>
<td>$696,495</td>
<td>$674,844</td>
<td>$701,636</td>
<td>$735,754</td>
<td>$776,117</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Payables</td>
<td>$1,444</td>
<td>$937</td>
<td>$2,832</td>
<td>$2,387</td>
<td>$2,395</td>
<td>$2,419</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>5,447</td>
<td>5,086</td>
<td>5,086</td>
<td>4,333</td>
<td>3,942</td>
<td>3,981</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>32,001</td>
<td>37,506</td>
<td>55,959</td>
<td>62,127</td>
<td>57,202</td>
<td>57,774</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$38,892</td>
<td>$43,529</td>
<td>$63,877</td>
<td>$68,847</td>
<td>$63,539</td>
<td>$64,174</td>
</tr>
</tbody>
</table>

| NET ASSETS      | $595,127 | $652,966 | $610,967 | $632,789 | $672,215 | $711,943 |

| Days Cash on Hand | 458 | 471 | 580 | 393 | 457 | 457 |

<table>
<thead>
<tr>
<th>REVENUES</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gifts &amp; Fundraising Revenue</td>
<td>$38,867</td>
<td>$56,330</td>
<td>$47,600</td>
<td>$48,100</td>
<td>$48,581</td>
<td>$49,553</td>
</tr>
<tr>
<td>University Support</td>
<td>13,305</td>
<td>12,680</td>
<td>12,427</td>
<td>12,450</td>
<td>12,677</td>
<td>12,931</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>66,686</td>
<td>53,867</td>
<td>18,425</td>
<td>48,219</td>
<td>48,701</td>
<td>49,188</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$118,858</td>
<td>$122,877</td>
<td>$78,452</td>
<td>$108,769</td>
<td>$109,959</td>
<td>$111,671</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENSES</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$34,765</td>
<td>$36,351</td>
<td>$39,249</td>
<td>$39,641</td>
<td>$40,835</td>
<td>$41,652</td>
</tr>
<tr>
<td>Scholarships &amp; Fellowships</td>
<td>8,330</td>
<td>9,723</td>
<td>7,715</td>
<td>7,792</td>
<td>7,948</td>
<td>$8,107</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>20,841</td>
<td>18,965</td>
<td>19,191</td>
<td>39,514</td>
<td>21,750</td>
<td>$22,185</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$63,936</td>
<td>$65,039</td>
<td>$66,155</td>
<td>$86,947</td>
<td>$70,533</td>
<td>$71,944</td>
</tr>
</tbody>
</table>

| Operating Profit Before Non-Cash Changes | $54,922 | $57,838 | $12,297 | $21,822 | $39,426 | $39,728 |
| Total Non-Cash Changes | 0 | 0 | 0 | 0 | 0 | 0 |
| NET OPERATING PROFIT | $54,922 | $57,838 | $12,297 | $21,822 | $39,426 | $39,728 |

| Operating Profit Margin | 46% | 47% | 16% | 20% | 36% | 36% |
The University of South Florida Research Foundation was established to promote, encourage, and enhance the research activities of University of South Florida faculty, staff and students.

The Research Foundation provides a mechanism for the funding of licensed research and development activities at the University. As a DSO, the Research Foundation provides broad and flexible financial mechanisms to administer private research contracts and grants, including corporate and private foundation-sponsored programs. We assist the University by working in cooperation with the University's Technology Transfer Office in the commercialization of University inventions including license agreements, and receipt and distribution of royalties related to intellectual property.

The USF Innovation Enterprise, which encompasses the USF Research Park, Technology Transfer, USF Office of Corporate Partnerships and the Tampa Bay Technology Incubator, contributes to a robust innovation-based ecosystem to include community startups and corporate partnerships with the University.

The Research Foundation owns and manages real property assets that include the USF Research Park and various buildings that are located within the Park. Revenue is generated primarily through long-term leases of facilities utilized by the University research enterprise and private sector entities seeking research relationships with the University.

Projected rent revenue to be received from the University in FY2020 for the leasing of Research Park facilities is $8.26M. University rents are included in rental revenue on the accompanying Income Statement.

On behalf of the University, the Research Foundation also manages the fiscal operations of the USF Tampa Bay Technology Incubator Program.

**List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves**

- FY2020 Financial Plan projects a positive cash flow from Operations of $4.8M, with a net positive cash flow of $1.5M available for reserves.

**Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations**

- $688 thousand of tenant improvements may be expended to generate additional rent revenues if needed. If the leases are not awarded or the improvements are not required for lease incentive, the funds will not be expended.

- $661 thousand of capital expenditures are included in the FY 2020 Plan for maintaining functionality of the property and buildings. These include replacing an HVAC RTU, mechanical controls upgrade, and projects designed to reduce operating utility costs and preserve the buildings within the Research Park, as Class A properties.

- $150 thousand to convert from Banner system to a new and expanded financial reporting system designed to improve our business processing.

**Identify Key Risks That Might Affect the 2020 Financial Plan**

- Occupancy within the Research Park is at near capacity. While there is on-going risk of lease terminations, there continues to be encouraging interest in available space. The demand study procured for the new mixed use lab and office project validates this interest.

**List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022**

- The proposed construction of a new mixed use lab and office project to be located in the USF Research Park. As the owner/operator of the Research Park, we will work with the USF Financing Corporation to issue debt, execute a ground sublease and master lease for the proposed project. Construction of the core and shell is expected to begin January 2020 with completion scheduled by January 2021.
### INCOME STATEMENT

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rental Revenue</td>
<td>$9,144</td>
<td>$8,551</td>
<td>$593</td>
<td>7%</td>
<td>$8,390</td>
<td>$8,379</td>
</tr>
<tr>
<td>NMR Use License Fee</td>
<td>307</td>
<td>307</td>
<td>0</td>
<td>0%</td>
<td>307</td>
<td>307</td>
</tr>
<tr>
<td>Other Operating Revenues</td>
<td>257</td>
<td>262</td>
<td>(6)</td>
<td>(2)%</td>
<td>266</td>
<td>244</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$12,868</td>
<td>$12,597</td>
<td>$271</td>
<td>2%</td>
<td>$12,014</td>
<td>$12,657</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$1,437</td>
<td>$1,384</td>
<td>$53</td>
<td>4%</td>
<td>$1,384</td>
<td>$1,347</td>
</tr>
<tr>
<td>Intellectual Property &amp; Other Program Exp</td>
<td>2,360</td>
<td>2,776</td>
<td>(416)</td>
<td>(15)%</td>
<td>2,579</td>
<td>3,045</td>
</tr>
<tr>
<td>Operations - Research Park</td>
<td>3,607</td>
<td>3,007</td>
<td>600</td>
<td>20%</td>
<td>3,116</td>
<td>3,075</td>
</tr>
<tr>
<td>Contractual Services &amp; Other Operating</td>
<td>149</td>
<td>141</td>
<td>8</td>
<td>6%</td>
<td>140</td>
<td>165</td>
</tr>
<tr>
<td>UBC Net Exp (University Business Center)</td>
<td>24</td>
<td>314</td>
<td>(289)</td>
<td>(92)%</td>
<td>199</td>
<td>4</td>
</tr>
<tr>
<td>Interest Expense</td>
<td>533</td>
<td>620</td>
<td>(87)</td>
<td>(14)%</td>
<td>620</td>
<td>687</td>
</tr>
<tr>
<td>Depreciation &amp; Amortization</td>
<td>2,767</td>
<td>2,604</td>
<td>163</td>
<td>6%</td>
<td>2,736</td>
<td>2,907</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$10,877</td>
<td>$10,845</td>
<td>$31</td>
<td>0%</td>
<td>$10,775</td>
<td>$11,230</td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-OPERATING REVENUE</strong></td>
<td>$1,991</td>
<td>$1,751</td>
<td>$240</td>
<td>14%</td>
<td>$1,239</td>
<td>$1,427</td>
</tr>
<tr>
<td>Investment Income</td>
<td>2,023</td>
<td>1,540</td>
<td>483</td>
<td>31%</td>
<td>1,895</td>
<td>3,117</td>
</tr>
<tr>
<td>Other Non-Operating Income (Loss)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>$2,023</td>
<td>$1,540</td>
<td>$483</td>
<td>31%</td>
<td>$1,895</td>
<td>$3,117</td>
</tr>
<tr>
<td><strong>NET INCOME</strong></td>
<td>$4,014</td>
<td>$3,291</td>
<td>$723</td>
<td>22%</td>
<td>$3,133</td>
<td>$4,544</td>
</tr>
</tbody>
</table>

**Operating Profit Margin**  
- 15%  
- 14%  
- 2%  
- 10%  
- 11%  
- 10%
## Statement of Cash Flows

### Operating Activities

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Income</td>
<td>$4,014</td>
<td>$3,291</td>
<td>$723 22%</td>
<td>$3,133</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less Non-Cash Investment (Gain)</td>
<td>(2,023)</td>
<td>(1,540)</td>
<td>(483) (31)%</td>
<td>(1,895)</td>
</tr>
<tr>
<td>Add back Depreciation/Amortization Exp</td>
<td>2,767</td>
<td>2,604</td>
<td>163 6%</td>
<td>2,736</td>
</tr>
<tr>
<td>Add back Other Non-Cash Expenses</td>
<td>18</td>
<td>149</td>
<td>(131) (88)%</td>
<td>75</td>
</tr>
<tr>
<td>Less Other Non-Cash Revenue</td>
<td>-</td>
<td>(23)</td>
<td>23 100%</td>
<td>(30)</td>
</tr>
<tr>
<td>Add Cash Other Income Restatement</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Adjustments for Changes in</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Assets and Liabilities</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(83)</td>
</tr>
<tr>
<td><strong>Total Cash From Operating Activities</strong></td>
<td><strong>$4,777</strong></td>
<td><strong>$4,482</strong></td>
<td><strong>$295 7%</strong></td>
<td><strong>$4,020</strong></td>
</tr>
</tbody>
</table>

### Investing Activities

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Expenditures</td>
<td>$(1,534)</td>
<td>$(1,374)</td>
<td>$(160) (12)%</td>
<td>$(1,852)</td>
</tr>
<tr>
<td>Net (Purchase) Sale of Investments</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Issuance of Seed Capital Loans (net)</td>
<td>-</td>
<td>(25)</td>
<td>25 100%</td>
<td>(150)</td>
</tr>
<tr>
<td>Transfer from Venture Investment Fund</td>
<td>-</td>
<td>25</td>
<td>(25) (100)%</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total Cash Used Investing Activities</strong></td>
<td><strong>$(1,534)</strong></td>
<td><strong>$(1,374)</strong></td>
<td><strong>$(160) (12)%</strong></td>
<td><strong>$(1,852)</strong></td>
</tr>
</tbody>
</table>

### Financing Activities

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Payments</td>
<td>$(1,745)</td>
<td>$(1,720)</td>
<td>$(25) (1)%</td>
<td>$(1,720)</td>
</tr>
<tr>
<td>Redeem Investments for New Building</td>
<td>3,194</td>
<td>3,194</td>
<td>%</td>
<td>-</td>
</tr>
<tr>
<td>Cash Outlay: New Bldg Debt Reserve Fund</td>
<td>(2,420)</td>
<td>(2,420)</td>
<td>%</td>
<td>-</td>
</tr>
<tr>
<td>Cash Outlay: New Bldg Interest Costs</td>
<td>(774)</td>
<td>(774)</td>
<td>%</td>
<td>-</td>
</tr>
<tr>
<td>Redeem Investments for Debt Payoff</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pay Off Research Park Building Debt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total Cash Used Financing Activities</strong></td>
<td><strong>$(1,745)</strong></td>
<td>**$(1,720) **</td>
<td><strong>$(25) (1)%</strong></td>
<td>**$(1,720) **</td>
</tr>
</tbody>
</table>

### Change in Cash

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in Cash</td>
<td>1,498</td>
<td>1,388</td>
<td>110 8%</td>
<td>448</td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>7,466</td>
<td>6,077</td>
<td>1,388 23%</td>
<td>6,026</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td><strong>$8,964</strong></td>
<td><strong>$7,466</strong></td>
<td><strong>$1,498 20%</strong></td>
<td><strong>$6,474</strong></td>
</tr>
</tbody>
</table>

### Total Cash & Investments

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cash &amp; Investments</td>
<td><strong>$43,377</strong></td>
<td><strong>$43,524</strong></td>
<td><strong>$(148) (0)%</strong></td>
<td><strong>$41,209</strong></td>
</tr>
</tbody>
</table>

### Days Cash on Hand

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Days Cash on Hand</td>
<td>332</td>
<td>381</td>
<td>(50) (13)%</td>
<td>298</td>
</tr>
</tbody>
</table>
# USF Research Foundation, Inc.

**Annual Financial Plan for FY 2020**

## 3-YEAR FORECAST

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL &amp; ESTIMATED</th>
<th>FORECAST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY 2017</td>
<td>FY 2018</td>
</tr>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$35,430</td>
<td>$40,622</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>34,100</td>
<td>31,901</td>
</tr>
<tr>
<td>Other Assets</td>
<td>18,244</td>
<td>18,837</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$87,774</strong></td>
<td><strong>$91,360</strong></td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables</td>
<td>$2,205</td>
<td>$2,284</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>20,465</td>
<td>18,875</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>7,880</td>
<td>7,646</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td><strong>$30,550</strong></td>
<td><strong>$28,806</strong></td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td><strong>$57,224</strong></td>
<td><strong>$62,554</strong></td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td>253</td>
<td>325</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rental Revenue</td>
<td>$8,061</td>
<td>$8,379</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>492</td>
<td>551</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td><strong>$10,860</strong></td>
<td><strong>$12,657</strong></td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$1,212</td>
<td>$1,347</td>
</tr>
<tr>
<td>Operations - Research Park</td>
<td>2,895</td>
<td>3,075</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>5,627</td>
<td>6,808</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$9,733</strong></td>
<td><strong>$11,230</strong></td>
</tr>
<tr>
<td>Operating Profit Before Non-Cash Changes</td>
<td>$1,127</td>
<td>$1,427</td>
</tr>
<tr>
<td>Total Non-Cash Investment Income</td>
<td>3,434</td>
<td>3,117</td>
</tr>
<tr>
<td><strong>NET INCOME</strong></td>
<td><strong>$4,562</strong></td>
<td><strong>$4,544</strong></td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td><strong>10%</strong></td>
<td><strong>11%</strong></td>
</tr>
</tbody>
</table>
State the DSO's Statutory Mission which Supports the Goals of the University

- Continue to enhance awareness and perception in the local market and nationally, promoting Yuengling Center as a premiere event and hospitality venue.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- The 2020 Financial Plan reflects a slight increase in revenue of $37 thousand or 2%, while maintaining operating expenses at a consistent level with the prior fiscal year. It should be noted that the 2019/2020 budget does not project any additional Men's or Women's basketball games. As a result, the 2019/2020 budget reflects a decrease in basketball-related event income of approximately $110 thousand compared to the 2018/2019 forecast. Excluding the impact of these additional games, the fiscal year increase in operating revenue climbs from $37 thousand to $147 thousand, or 8%. Building upon the success of the 2018/2019 fiscal year, the primary driver for the projected increase in revenue is event quality.

- The 2019 Financial Plan projects a decrease in the fiscal year cash balance of $231 thousand, primarily due to the fact that payment of the 2018/2019 projected incentive fees of $150 thousand is expected to occur in 2019/2020.

- Based upon the 2020 projected Financial Plan, it is not currently anticipated that the Sun Dome Arena will require cash funding in 2019/2020 to sustain operations.

- The FY2020 Financial Plan operating cash flows of $182 thousand do not cover debt service requirements of $413 thousand, further reducing year end cash balance to $231 thousand.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- Yuengling Center/ TBEP staff are working to produce a 10-yr asset management plan for the University with the intent to provide a roadmap on how we help maintain the buildings' critical infrastructures, extend the life of the building, and incorporate fan experience elements. Through this exercise, a timeline will produce a better understanding of the lifespan surrounding many of these tangible assets, therefore allowing for enhanced decision making around necessary capital expenditures. These costs have been excluded from the financial statements included herein, as it is anticipated that USF will provide the funding and the related assets will be recorded on USF books' consistent with the building/ building improvements.

Identify Key Risks That Might Affect the 2020 Financial Plan

- The 2020 Financial Plan factors in 7 concerts/ events, which have not been confirmed. In the event, these shows do not come to fruition, it could negatively impact profitability on a net basis by approximately $382 thousand (significant decrease from the 2018/2019 budget which included 12 unnamed events).

- The 2020 Financial Plan assumes attendance and related event profitability with respect to USF Men's and Women's basketball will remain consistent with 2018-2019 (with the exception of the additional games played in 2018/2019).

- The 2020 Financial Plan does not factor in a contingency for any extraordinary maintenance, repairs or rate increases in insurance premiums.

- Negative operating net cash flows are a risk.

List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2020 and 2021

- Identify multi-show deals and concert series opportunities to increase event bookings

- Re-establish and build on relationships with top promoters

- Strategic booking to include a diverse programing of quality events that crosses all genres

- Continue to provide "Blue Ribbon" service to our consumers, improving upon the brand perception in the local and national marketplace
# Sun Dome, Inc.

Annual Financial Plan for FY 2020

## INCOME STATEMENT

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19) (2)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Event Income</td>
<td>$559</td>
<td>$455</td>
<td>$103</td>
<td>23%</td>
<td>$696</td>
<td>$264</td>
</tr>
<tr>
<td>Ancillary Revenue</td>
<td>1,341</td>
<td>1,406</td>
<td>(66)</td>
<td>(5)%</td>
<td>1,097</td>
<td>1,121</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>90</td>
<td>91</td>
<td>(1)</td>
<td>(1)%</td>
<td>68</td>
<td>110</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$1,989</td>
<td>$1,953</td>
<td>$37</td>
<td>2%</td>
<td>$1,861</td>
<td>$1,494</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salary &amp; Benefits</td>
<td>$957</td>
<td>$911</td>
<td>$46</td>
<td>5%</td>
<td>$882</td>
<td>$817</td>
</tr>
<tr>
<td>General &amp; Administrative</td>
<td>466</td>
<td>450</td>
<td>16</td>
<td>4%</td>
<td>463</td>
<td>427</td>
</tr>
<tr>
<td>Marketing &amp; Sales</td>
<td>41</td>
<td>26</td>
<td>15</td>
<td>60%</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Equipment &amp; Supplies</td>
<td>91</td>
<td>65</td>
<td>25</td>
<td>39%</td>
<td>65</td>
<td>53</td>
</tr>
<tr>
<td>Utilities</td>
<td>31</td>
<td>33</td>
<td>(2)</td>
<td>(6)%</td>
<td>36</td>
<td>31</td>
</tr>
<tr>
<td>Insurance</td>
<td>126</td>
<td>125</td>
<td>1</td>
<td>1%</td>
<td>126</td>
<td>152</td>
</tr>
<tr>
<td>Transition Expenses</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>96</td>
</tr>
<tr>
<td>Incentive Fees/ Profit Share</td>
<td>50</td>
<td>150</td>
<td>(100)</td>
<td>(67)%</td>
<td>224</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$1,762</td>
<td>$1,760</td>
<td>$2</td>
<td>0%</td>
<td>$1,819</td>
<td>$1,596</td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-CASH CHANGES</strong></td>
<td>$227</td>
<td>$192</td>
<td>$35</td>
<td>18%</td>
<td>$42</td>
<td>$(102)</td>
</tr>
<tr>
<td>Unrealized Investment Gains (Losses)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$227</td>
<td>$192</td>
<td>$35</td>
<td>18%</td>
<td>$42</td>
<td>$(102)</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>11%</td>
<td>10%</td>
<td>2%</td>
<td>2%</td>
<td>#DIV/0!</td>
<td>#DIV/0!</td>
</tr>
</tbody>
</table>

---

(1) Prior Management Company

(2) Based upon 4/5/19 Bi-weekly forecast submitted to USF
## STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$227</td>
<td>$192</td>
<td>$35</td>
<td>$18 %</td>
<td>$42</td>
<td>$(102)</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase (Decrease) in Accounts Receivable</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>122</td>
</tr>
<tr>
<td>Increase (Decrease) in Prepaids</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Increase (Decrease) in Accounts Payable</td>
<td>17</td>
<td>18</td>
<td>(1)</td>
<td>(7)%</td>
<td>(104)</td>
<td>25</td>
</tr>
<tr>
<td>Increase (Decrease) in Prepaids</td>
<td>(65)</td>
<td>40</td>
<td>(105)</td>
<td>(263)%</td>
<td>238</td>
<td>554</td>
</tr>
<tr>
<td>Increase (Decrease) in Deferred Revenue</td>
<td>3</td>
<td>33</td>
<td>(30)</td>
<td>(90)%</td>
<td>100</td>
<td>(317)</td>
</tr>
<tr>
<td><strong>Total Cash From Operating Activities</strong></td>
<td>$182</td>
<td>$284</td>
<td>$(102)</td>
<td>(36)%</td>
<td>$276</td>
<td>$284</td>
</tr>
<tr>
<td><strong>INVESTING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Expenditures</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Cash From Investing Activities</strong></td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>%</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>FINANCING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Event Revenue Transfers to USFCC - debt pmt</td>
<td>$(413)</td>
<td>$(413)</td>
<td>$0</td>
<td>0 %</td>
<td>$(449)</td>
<td>$(544)</td>
</tr>
<tr>
<td><strong>Total Cash From Financing Activities</strong></td>
<td>$(413)</td>
<td>$(413)</td>
<td>$0</td>
<td>0 %</td>
<td>$(449)</td>
<td>$(544)</td>
</tr>
<tr>
<td><strong>CHANGE IN CASH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>575</td>
<td>704</td>
<td>(129)</td>
<td>(18)%</td>
<td>704</td>
<td>964</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>$344</td>
<td>$575</td>
<td>$(231)</td>
<td>(40)%</td>
<td>$532</td>
<td>$704</td>
</tr>
<tr>
<td><strong>Total Cash &amp; Investments</strong></td>
<td>$344</td>
<td>$575</td>
<td>$(231)</td>
<td>(40)%</td>
<td>$532</td>
<td>$704</td>
</tr>
<tr>
<td><strong>Days Cash on Hand</strong></td>
<td>71</td>
<td>119</td>
<td>(48)</td>
<td>(40)%</td>
<td>107</td>
<td>161</td>
</tr>
</tbody>
</table>

1(3) Prior Management Company
2(3) Based upon 4/5/19 Bi-weekly forecast submitted to USF
3(3) Assumes USF funding of Capital expenditures with related assets maintained on USF's books' (consistent with the current reporting of the building/ building improvements).
3-YEAR FORECAST

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2017 (1)</th>
<th>FY 2018</th>
<th>FY 2019 (2)</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$0</td>
<td>$704</td>
<td>$575</td>
<td>$344</td>
<td>$598</td>
<td>$829</td>
</tr>
<tr>
<td>Accounts Receivable</td>
<td>0</td>
<td>124</td>
<td>124</td>
<td>124</td>
<td>124</td>
<td>124</td>
</tr>
<tr>
<td>Fixed Assets (3)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Assets</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$0</td>
<td>$828</td>
<td>$699</td>
<td>$468</td>
<td>$722</td>
<td>$953</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables</td>
<td>$0</td>
<td>$248</td>
<td>$266</td>
<td>$283</td>
<td>$296</td>
<td>$312</td>
</tr>
<tr>
<td>Accrued Liabilities</td>
<td>0</td>
<td>647</td>
<td>687</td>
<td>622</td>
<td>815</td>
<td>898</td>
</tr>
<tr>
<td>Deferred Revenue</td>
<td>0</td>
<td>143</td>
<td>176</td>
<td>179</td>
<td>212</td>
<td>231</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$0</td>
<td>$1,037</td>
<td>$1,129</td>
<td>$1,084</td>
<td>$1,323</td>
<td>$1,441</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td>$0</td>
<td>$(209)</td>
<td>$(430)</td>
<td>$(616)</td>
<td>$(601)</td>
<td>$(488)</td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>161</td>
<td>119</td>
<td></td>
<td>71</td>
<td>109</td>
<td>141</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Event Income</td>
<td>$0</td>
<td>$264</td>
<td>$455</td>
<td>$559</td>
<td>$716</td>
<td>$788</td>
</tr>
<tr>
<td>Ancillary Revenue</td>
<td>0</td>
<td>1,121</td>
<td>1,406</td>
<td>1,341</td>
<td>1,630</td>
<td>1,793</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>0</td>
<td>110</td>
<td>91</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$0</td>
<td>$1,494</td>
<td>$1,953</td>
<td>$1,989</td>
<td>$2,436</td>
<td>$2,671</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salary &amp; Benefits</td>
<td>$0</td>
<td>$817</td>
<td>$911</td>
<td>$957</td>
<td>$1,004</td>
<td>$1,055</td>
</tr>
<tr>
<td>General &amp; Administrative</td>
<td>0</td>
<td>427</td>
<td>450</td>
<td>466</td>
<td>489</td>
<td>514</td>
</tr>
<tr>
<td>Marketing &amp; Sales</td>
<td>0</td>
<td>22</td>
<td>26</td>
<td>41</td>
<td>43</td>
<td>45</td>
</tr>
<tr>
<td>Equipment &amp; Supplies</td>
<td>0</td>
<td>53</td>
<td>65</td>
<td>91</td>
<td>96</td>
<td>100</td>
</tr>
<tr>
<td>Utilities</td>
<td>0</td>
<td>31</td>
<td>33</td>
<td>31</td>
<td>33</td>
<td>34</td>
</tr>
<tr>
<td>Insurance</td>
<td>0</td>
<td>152</td>
<td>125</td>
<td>126</td>
<td>132</td>
<td>139</td>
</tr>
<tr>
<td>Transition Expenses</td>
<td>0</td>
<td>96</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Incentive Fees/ Profit Share (4)</td>
<td>0</td>
<td>0</td>
<td>150</td>
<td>50</td>
<td>213</td>
<td>255</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$0</td>
<td>$1,596</td>
<td>$1,760</td>
<td>$1,762</td>
<td>$2,010</td>
<td>$2,142</td>
</tr>
<tr>
<td>Operating Profit Before Non-Cash Changes</td>
<td>$0</td>
<td>$(102)</td>
<td>$192</td>
<td>$227</td>
<td>$426</td>
<td>$529</td>
</tr>
<tr>
<td>Total Non-Cash Changes</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>NET OPERATING PROFIT</td>
<td>$0</td>
<td>$(102)</td>
<td>$192</td>
<td>$227</td>
<td>$426</td>
<td>$529</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>0%</td>
<td>-7%</td>
<td>10%</td>
<td>11%</td>
<td>17%</td>
<td>20%</td>
</tr>
</tbody>
</table>

(1) Prior Management Company
(2) Based upon 4/5/19 Bi-weekly forecast submitted to USF
(3) Assumes USF funding of Capital expenditures with related assets maintained on USF's books (consistent with the current reporting of the building/ building improvements).
(4) FY 20 & FY 21 Profit Share calculation factors in an assumption for capital expenses of $250K/ year.
USF Institute of Applied Engineering
Annual Financial Plan for FY 2020

FINANCIAL PLAN STATEMENT

State the DSO’s Statutory Mission which Supports the Goals of the University

- The USF Institute of Applied Engineering provides agile, best value engineering products and services to enhance the performance, effectiveness and safety of our customers. The Institute’s customers include the Department of Defense, other federal, state and local agencies, and industry. The Institute provides engineering solutions in alignment with the following core competencies: Autonomous Systems; Human Performance Enhancement; Data Analytics; Cyber and Electromagnetic Domain Security; and Transportation and Energy infrastructure. By focusing on product and service solutions, the Institute expands the University's traditional research portfolio while providing increased research and education opportunities to both USF faculty and students.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- The Institute is in active negotiations for up to seven contracts, with a total value, including anticipated Florida High Tech Corridor Matching funds, up to $3.2M. Six of these contracts are federally funded (either directly or pass through with an industry partner). Additional details on the nature and status of these contracts is provided separately.

- In addition, the Institute is actively responding to a USSOCOM solicitation to enter into a “a long term contractual agreement with an Academic institution within the local (two hour) MacDill AFB geographic area”. The Institute anticipates USSOCOM's next steps on this task order contract to be formally announced via FedBizOps this summer, with award later in FY20.

- Revenue collections from these contracts and other potential sponsors are expected to start in early FY20 and into FY21. Indirects collected from these collected revenues, along with USF support, will fund Institute operating expenses. In addition, 1% of contract revenues collected will be provided to university for compliance and other support USF provides to the Institute.

- Having an adequate reserve for expenditures to post before collections are deposited in order to continue contract research without lapses due to temporary lack of funding is a concern. Timely receipt of University funding will lower this cash flow risk.

- Institute is in discussions with Hillsborough County to provide funding to Institute matching University investment and commitment. To be voted on at HC Commissioners meeting on May 15.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- The Capital Expenditures in the FY2020 Financial Plan are for manufacturing equipment that is a requirement to do business with a potential research sponsor.

Identify Key Risks That Might Affect the 2020 Financial Plan

- Having enough available cash on hand in order to support research expenditures before collections are deposited from sponsors.

- If an agreement is reached between HC and the Institute, the Institute intends to amend its FY20 budget to account for this significant revenue source. However, the current financial plan does not require this funding.

List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022

- Due to the anticipated duration and requirements scope of the USSOCOM task order contract, the Institute expects revenue collected under this contract will represent the majority of the projected revenue growth in 21-22.

- Meanwhile, the Institute continues to engage with other government and industry sponsors in the state of Florida and beyond to support their requirements.
# USF Institute of Applied Engineering

## Annual Financial Plan for FY 2020

## INCOME STATEMENT

### REVENUES

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contracts &amp; Grants Revenue</td>
<td>843</td>
<td>0</td>
<td>843 %</td>
<td>886</td>
</tr>
<tr>
<td>Contracts &amp; Grants Revenue - Potential</td>
<td>1,407</td>
<td>0</td>
<td>1,407 %</td>
<td>0</td>
</tr>
<tr>
<td>University Support</td>
<td>$602</td>
<td>$491</td>
<td>$111 %</td>
<td>$491</td>
</tr>
<tr>
<td>College of Engineering Support</td>
<td>79</td>
<td>374</td>
<td>(295) %</td>
<td>0</td>
</tr>
<tr>
<td>Florida High Tech Corridor Matching</td>
<td>150</td>
<td>0</td>
<td>150 %</td>
<td>0</td>
</tr>
<tr>
<td>Donated Materials, Supplies &amp; Equip.</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
</tr>
<tr>
<td>Donated Furnished Rent Free Space</td>
<td>73</td>
<td>0</td>
<td>73 %</td>
<td>0</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$3,154</td>
<td>$865</td>
<td>$2,289 265 %</td>
<td>$1,377</td>
</tr>
</tbody>
</table>

### EXPENSES

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$803</td>
<td>$77</td>
<td>$726     943 %</td>
<td>$347</td>
</tr>
<tr>
<td>College of Engineering Salary Support</td>
<td>79</td>
<td>374</td>
<td>(295) %</td>
<td>0</td>
</tr>
<tr>
<td>Gifts In-Kind Expense</td>
<td>73</td>
<td>0</td>
<td>73 %</td>
<td>20</td>
</tr>
<tr>
<td>Travel, Materials, Supplies, Software &amp; Equip.</td>
<td>70</td>
<td>54</td>
<td>16       30 %</td>
<td>712</td>
</tr>
<tr>
<td>Banking, Insurance, Audit, Tax Services</td>
<td>50</td>
<td>36</td>
<td>14       39 %</td>
<td>18</td>
</tr>
<tr>
<td>Facilities, Utilities, Telecomm., Security</td>
<td>91</td>
<td>12</td>
<td>79       658 %</td>
<td>9</td>
</tr>
<tr>
<td>Direct Program Costs</td>
<td>1,966</td>
<td>0</td>
<td>1,966 %</td>
<td>271</td>
</tr>
<tr>
<td>University Support</td>
<td>22</td>
<td>0</td>
<td>22 %</td>
<td>0</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$3,154</td>
<td>$553</td>
<td>$2,601 470 %</td>
<td>$1,377</td>
</tr>
</tbody>
</table>

### OPERATING PROFIT BEFORE NON-CASH CHANGES

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATING PROFIT BEFORE NON-CASH CHANGES</td>
<td>$0</td>
<td>$312</td>
<td>$(312) (100)%</td>
<td>$0</td>
</tr>
</tbody>
</table>

### NET OPERATING PROFIT

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET OPERATING PROFIT</td>
<td>$0</td>
<td>$312</td>
<td>$(312) (100)%</td>
<td>$0</td>
</tr>
</tbody>
</table>

### Operating Profit Margin

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Profit Margin</td>
<td>0%</td>
<td>36%</td>
<td>(36)%</td>
<td>0%</td>
</tr>
</tbody>
</table>

## Variance

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2020</th>
<th>FY 2019</th>
<th>Variance</th>
<th>FY 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2020 - FY 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2019 - FY 2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Board of Trustees Regular Meeting - New Business - Consent Agenda

786
# Statement of Cash Flows

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Activities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$0</td>
<td>$312</td>
<td>$(312)</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Assets and Liabilities</td>
<td>47</td>
<td>(8)</td>
<td>55</td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$47</td>
<td>$304</td>
<td>$(257)</td>
</tr>
<tr>
<td><strong>Investing Activities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Expenditures</td>
<td>$(119)</td>
<td>$(81)</td>
<td>$(38)</td>
</tr>
<tr>
<td>Net (Purchases) Sales of Investments</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Cash From Investing Activities</td>
<td>$(119)</td>
<td>$(81)</td>
<td>$(38)</td>
</tr>
<tr>
<td><strong>Financing Activities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds of Long-Term Debt</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Principal Payments</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Interest Payments</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Cash From Financing Activities</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Change in Cash</strong></td>
<td>(72)</td>
<td>223</td>
<td>(295)</td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>223</td>
<td>0</td>
<td>223</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>$151</td>
<td>$223</td>
<td>$(72)</td>
</tr>
<tr>
<td>Total Cash &amp; Investments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$151</td>
<td>$223</td>
<td>$(72)</td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td>17</td>
<td>147</td>
<td>(130)</td>
</tr>
</tbody>
</table>

USF Institute of Applied Engineering
Annual Financial Plan for FY 2020
### USF Institute of Applied Engineering

#### Annual Financial Plan for FY 2020

#### 3-YEAR FORECAST

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL &amp; ESTIMATED</th>
<th>FORECAST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY 2017</td>
<td>FY 2018</td>
</tr>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Assets</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Days Cash on Hand</strong></td>
<td>147.2</td>
<td></td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Support</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Contracts &amp; Grants Revenue</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Direct Program Expense</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Operating Profit Before Non-Cash Changes</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Operating Profit Margin</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
State the DSO’s Statutory Mission which Supports the Goals of the University

- The mission of USF Health Professions Conferencing Corporation (HPCC), a direct support organization and Florida not-for-profit corporation, is to support the goals of the University of South Florida and its Board of Trustees, namely to help achieve academic excellence, enable pre-eminent research, and facilitate top quality healthcare services.

HPCC helps to achieve these goals through a range of activities and entities, including the Center for Advanced Medical Learning and Simulation (CAMLs) which has as its vision to improve healthcare through lifelong education and learning and whose mission is to create and provide experiential learning that improves clinical skills and patient care in our community and around the globe. HPCC also supports the efficient administration of the USF Health Office of Continuing Professional Development (CPD) as well as several USF Health international programs.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- HPCC has achieved, and is targeted to maintain, a 90-day cash position, notwithstanding the FY20 planned reduction of investment support (‘DSO (UMSA) Support – Continuing Ed – Faculty, Students’) from $1m to $250k. The FY20 investment support is planned to be used to upgrade aging medical simulation equipment and to make improvements to the CAMLS facility to enable more flexible and configurable use of its training and education spaces.

- In FY20, ‘Revenue for Continuing Professional Development’ is forecasted to be 19% greater than FY19 due to the continued increase in commercial funding from medical education companies (MECs) for Continuing Medical Education (CME) activities. Consistent with this business line, ‘Direct Program Expense’ (pass through funds) is also projected to increase, but at a lower rate (11% compared to FY19). Because program expenses are expected to increase at a lower rate than revenue, HPCC will retain more bottom line revenue than in past years to cover the cost of managing the CME programs and administering the USF Health accreditations. Because this business line is projected to continue to grow in FY20, the plan accounts for the addition of one FTE to support CPD/CME programming, the cost of which should be offset by incremental revenue. Incremental revenue is expected to be positively impacted by a change in the CPD pricing model for accreditation services that will take effect in FY20, the first adjustment made in nearly 10 years.

- FY20 ‘CAMLS-Industry, Societies, Healthcare’ is forecasted to decrease 4% due to the non-recurrence of a physician training program conducted in concert with the Mexican government.

- The ‘DSO (UMSA) Support - Continuing Ed.-Faculty, Students’ for the development and delivery of continuing academic and professional simulation education for students and practitioners will reduce to $250K. This support along with HPCC’s strong financial performance will support programming and reinvestment in equipment and facility improvements.

- FY20 ‘Wages and Benefits’ assumes the following: a cost-of-living increase for all FTE’s; filling a vacancy in the role of instructional designer for program development; the addition of a CPD coordinator (noted above); the addition of a role in the business development team; and transition of an A/V technician from contract staff to full-time employee. Note that ‘Wages - program driven temporary staffing’ reflects personnel associated with specific training programs, the cost of which is typically a full pass through.

- FY20 ‘Depreciation-Purchased & Donated Assets’ continues to decrease as assets become fully depreciated. The planned capital investments that began in FY19 to maintain simulation training equipment and facility maintenance will increase future annual depreciation expense.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- HPCC plans to increase its inventory of simulator manikins to meet increasing demand and replace aging equipment to maintain service delivery expectations. We are also identifying new space technologies to enable more flexible and configurable use of high demand training space to balance the competing demands of USF Health and external clients. The total capital expenditures planned for FY20 is projected to be $600K.
**Identify Key Risks That Might Affect the 2020 Financial Plan**

- CAMLS is experiencing a resurgence in activities and requests for its training spaces resulting in competing demands for key spaces at peak demand periods. It will be a continuing challenge to ensure the highest and best use of the limited space while balancing the need to enable optimum use by USF Health students and expanded use by entrepreneurial and external users.

- More hospital and industry clients are building their own simulation centers and developing internal training programs. This reinforces the need for CAMLS to diversify its business lines and identify and cultivate new clients.

**List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022**

- In FY20, HPCC is expected to achieve incremental growth in its portfolio, particularly through identifying new business lines and client opportunities. These may include: a) diversifying the portfolio to include government and not-for-profit contracts such as the Department of Veterans Affairs and Pinellas County, b) developing programming that occurs off-site (‘CAMLS Without Walls’) which exports CAMLS’ talent, tools, and resources while freeing up space for internal uses, c) developing original simulation training content focused on Simulation Center Management, a somewhat untapped market; and d) identifying opportunities to synchronize with and build on the expanding USF/USF Health presence downtown.

- CAMLS is part of a growing operational consortium which supports USF Health’s downtown facilities and spaces to achieve economies of scale, increased purchasing power, and improved service to students, staff, and clients. This may result in more cost effective adjustments to personnel needs and operating expenditures in the coming years.
**USF HEALTH PROFESSIONS CONFERENCING CORPORATION**  
Annual Financial Plan for FY 2020

**INCOME STATEMENT**

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 Financial Estimate (as of 3/31/19)</th>
<th>FY 2019 Results</th>
<th>Variance</th>
<th>FY 2019 Financial Plan</th>
<th>FY 2018 Actual Results</th>
<th>FY 2017 Actual Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuing Professional Development</td>
<td>$7,205</td>
<td>$6,036</td>
<td>$1,169</td>
<td>19 %</td>
<td>$1,857</td>
<td>$3,943</td>
</tr>
<tr>
<td>CAMLS - USF Health Programming</td>
<td>2,786</td>
<td>2,765</td>
<td>21</td>
<td>1 %</td>
<td>2,927</td>
<td>3,158</td>
</tr>
<tr>
<td>CAMLS - Industry, Societies, Healthcare</td>
<td>4,341</td>
<td>4,501</td>
<td>(160)</td>
<td>(4)%</td>
<td>3,980</td>
<td>5,381</td>
</tr>
<tr>
<td>Other HPCC Divisions</td>
<td>392</td>
<td>393</td>
<td>(1)</td>
<td>(0)%</td>
<td>405</td>
<td>523</td>
</tr>
<tr>
<td>In Kind Donations</td>
<td>40</td>
<td>40</td>
<td>0</td>
<td>0 %</td>
<td>40</td>
<td>22</td>
</tr>
<tr>
<td>Rents, Parking, Rebates, Interest</td>
<td>629</td>
<td>648</td>
<td>(19)</td>
<td>(3)%</td>
<td>529</td>
<td>531</td>
</tr>
<tr>
<td>Gain on Sale of Fixed Assets</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>University Support-Plant Operations &amp; Maint.</td>
<td>1,293</td>
<td>1,293</td>
<td>0</td>
<td>0 %</td>
<td>1,293</td>
<td>1,293</td>
</tr>
<tr>
<td>University Support-Educational wages/supplies</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>University Support</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DSO (UMSA) Support</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DSO (UMSA) Support - Wages and Benefits</td>
<td>60</td>
<td>60</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DSO (UMSA) Support - Continuing Ed Faculty, Students</td>
<td>250</td>
<td>1,000</td>
<td>(750)</td>
<td>(75)%</td>
<td>1,000</td>
<td>1,033</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$16,996</td>
<td>$16,735</td>
<td>$260</td>
<td>2 %</td>
<td>$12,031</td>
<td>$15,893</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wages and Benefits</td>
<td>$4,278</td>
<td>$3,874</td>
<td>$404</td>
<td>10 %</td>
<td>$3,704</td>
<td>$3,124</td>
</tr>
<tr>
<td>Wages - program driven temporary staffing</td>
<td>300</td>
<td>200</td>
<td>100</td>
<td>50 %</td>
<td>200</td>
<td>254</td>
</tr>
<tr>
<td>Utilities, Leases, Maint., Supplies, Marketing</td>
<td>2,094</td>
<td>2,210</td>
<td>(116)</td>
<td>(5)%</td>
<td>2,234</td>
<td>2,466</td>
</tr>
<tr>
<td>Direct Program Expense</td>
<td>7,936</td>
<td>7,149</td>
<td>788</td>
<td>11 %</td>
<td>3,430</td>
<td>5,744</td>
</tr>
<tr>
<td>Interest</td>
<td>528</td>
<td>567</td>
<td>(39)</td>
<td>(7)%</td>
<td>567</td>
<td>681</td>
</tr>
<tr>
<td>In Kind Expense</td>
<td>40</td>
<td>40</td>
<td>0</td>
<td>0 %</td>
<td>40</td>
<td>22</td>
</tr>
<tr>
<td>Depreciation-Purchased &amp; Donated Assets</td>
<td>1,067</td>
<td>1,440</td>
<td>(374)</td>
<td>(26)%</td>
<td>1,307</td>
<td>1,720</td>
</tr>
<tr>
<td>DSO (UMSA) Support</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$16,243</td>
<td>$15,480</td>
<td>$764</td>
<td>5 %</td>
<td>$11,482</td>
<td>$14,011</td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-CASH CHANGES</strong></td>
<td>$752</td>
<td>$1,256</td>
<td>$(503)</td>
<td>(40)%</td>
<td>$549</td>
<td>$1,882</td>
</tr>
<tr>
<td>Unrealized Investment Gains (Losses)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>0 %</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$752</td>
<td>$1,256</td>
<td>$(503)</td>
<td>(40)%</td>
<td>$549</td>
<td>$1,882</td>
</tr>
</tbody>
</table>

**Operating Profit Margin**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2020 Financial Plan</td>
<td>4%</td>
<td>8%</td>
<td>(3)%</td>
<td>5%</td>
<td>12%</td>
<td>9%</td>
</tr>
</tbody>
</table>
## STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$752</td>
<td>$1,256</td>
<td>$(503)</td>
<td>(40)%</td>
<td>$549</td>
<td>$1,882</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation</td>
<td>1,067</td>
<td>1,440</td>
<td>(374)</td>
<td>(26)%</td>
<td>1,307</td>
<td>1,720</td>
</tr>
<tr>
<td>(Gain)/Loss on sale of fixed assets</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>(10)</td>
</tr>
<tr>
<td>Adjustments for Changes in Operating Assets and Liabilities</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>(553)</td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$1,819</td>
<td>$2,696</td>
<td>$(877)</td>
<td>(33)%</td>
<td>$1,856</td>
<td>$3,039</td>
</tr>
<tr>
<td><strong>INVESTING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Expenditures</td>
<td>$(600)</td>
<td>$(200)</td>
<td>$(400)</td>
<td>(200)%</td>
<td>$(200)</td>
<td>$(345)</td>
</tr>
<tr>
<td>Net (Purchases) Sales of Investments</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>46</td>
</tr>
<tr>
<td>Total Cash From Investing Activities</td>
<td>$(600)</td>
<td>$(200)</td>
<td>$(400)</td>
<td>(200)%</td>
<td>$(200)</td>
<td>$(299)</td>
</tr>
<tr>
<td><strong>FINANCING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds of Long-Term Debt</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Principal Payments</td>
<td>(1,121)</td>
<td>(1,138)</td>
<td>17</td>
<td>1%</td>
<td>(1,138)</td>
<td>(1,148)</td>
</tr>
<tr>
<td>Total Cash From Financing Activities</td>
<td>$(1,121)</td>
<td>$(1,138)</td>
<td>$17</td>
<td>1%</td>
<td>$(1,138)</td>
<td>$(1,148)</td>
</tr>
<tr>
<td><strong>CHANGE IN CASH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>3,666</td>
<td>2,308</td>
<td>1,358</td>
<td>59%</td>
<td>1,810</td>
<td>716</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>$3,764</td>
<td>$3,666</td>
<td>$98</td>
<td>3%</td>
<td>$2,328</td>
<td>$2,308</td>
</tr>
<tr>
<td><strong>Total Cash &amp; Investments</strong></td>
<td>$3,764</td>
<td>$3,666</td>
<td>$98</td>
<td>3%</td>
<td>$2,328</td>
<td>$2,308</td>
</tr>
<tr>
<td><strong>Days Cash on Hand</strong></td>
<td>91</td>
<td>95</td>
<td></td>
<td></td>
<td>84</td>
<td>69</td>
</tr>
</tbody>
</table>
### 3-YEAR FORECAST

#### (In thousands)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash &amp; Investments</td>
<td>$716</td>
<td>$2,309</td>
<td>$3,666</td>
<td>$3,764</td>
<td>$3,814</td>
<td>$3,814</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>19,959</td>
<td>18,548</td>
<td>17,308</td>
<td>16,841</td>
<td>16,366</td>
<td>16,047</td>
</tr>
<tr>
<td>Other Assets</td>
<td>1,591</td>
<td>1,963</td>
<td>1,963</td>
<td>1,963</td>
<td>1,963</td>
<td>1,963</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$22,266</td>
<td>$22,820</td>
<td>$22,937</td>
<td>$22,568</td>
<td>$22,143</td>
<td>$21,824</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Payables</td>
<td>$2,576</td>
<td>$2,997</td>
<td>$2,997</td>
<td>$2,997</td>
<td>$2,997</td>
<td>$2,997</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>16,121</td>
<td>14,934</td>
<td>13,796</td>
<td>12,675</td>
<td>11,462</td>
<td>10,318</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>2,647</td>
<td>2,086</td>
<td>2,086</td>
<td>2,086</td>
<td>2,086</td>
<td>2,086</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$21,344</td>
<td>$20,017</td>
<td>$18,879</td>
<td>$17,758</td>
<td>$16,545</td>
<td>$15,401</td>
</tr>
</tbody>
</table>

| NET ASSETS                  | $922    | $2,803  | $4,058  | $4,810  | $5,598  | $6,423  |

| Days Cash on Hand           | 21.26   | 68.57   | 95.32   | 90.53   | 90.71   | 90.06   |

#### REVENUES

<table>
<thead>
<tr>
<th></th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program revenues</td>
<td>$13,559</td>
<td>$15,352</td>
<td>$16,088</td>
<td>$16,367</td>
<td>$16,694</td>
<td>$17,028</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>2,140</td>
<td>541</td>
<td>648</td>
<td>629</td>
<td>642</td>
<td>655</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$15,699</td>
<td>$15,893</td>
<td>$16,735</td>
<td>$16,996</td>
<td>$17,336</td>
<td>$17,682</td>
</tr>
</tbody>
</table>

#### EXPENSES

<table>
<thead>
<tr>
<th></th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$3,296</td>
<td>$3,378</td>
<td>$4,074</td>
<td>$4,578</td>
<td>$4,670</td>
<td>$4,763</td>
</tr>
<tr>
<td>Program services</td>
<td>10,242</td>
<td>9,952</td>
<td>10,839</td>
<td>11,137</td>
<td>11,360</td>
<td>11,587</td>
</tr>
<tr>
<td>Interest</td>
<td>726</td>
<td>681</td>
<td>567</td>
<td>528</td>
<td>517</td>
<td>507</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$14,264</td>
<td>$14,011</td>
<td>$15,480</td>
<td>$16,243</td>
<td>$16,547</td>
<td>$16,857</td>
</tr>
</tbody>
</table>

| Operating Profit Before Non-Cash Changes | $1,434 | $1,882 | $1,256 | $752 | $788 | $825 |
| Total Non-Cash Changes                  | $0     | $0     | $0     | $0   | $0   | $0   |
| NET OPERATING PROFIT                    | $1,434 | $1,882 | $1,256 | $752 | $788 | $825 |

| Operating Profit Margin                 | 9%     | 12%    | 8%     | 4%    | 5%    | 5%    |
Financing Plan Statement

State the DSO's Statutory Mission which Supports the Goals of the University

- The USF Alumni Association exists to assist in the success of the University of South Florida. The Alumni Association is in the alumni engagement and cultivation ("friend raising") business. The focus of the Association is to strengthen relationships with Alumni through myriad activities, thus leading to their long-term involvement with the University of South Florida. Activities include alumni opportunities for volunteering, event participation, student mentoring, recognition programs, and financial support. All of this engagement activity by Alumni and friends supports the University as a whole. While the long term revenue associated with the Association's support is not directly reflected in the Association's financial statements, alumni engagement combined with development activity helps to facilitate fundraising success.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- Membership solicitation programs are expected to increase membership revenue by 8%.

- A 21% increase in event revenue and sponsorships is expected due to the Alumni Association's focus on hosting preeminent events that connect and engage Alumni. Events such as the Green and Gold Gala have experienced a substantial increase in attendance and donor cultivation, and we expect this to continue.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- No capital expenditures in 2020 planned.

Identify Key Risks That Might Affect the 2020 Financial Plan

- Some potential sponsors have yet to sign a contract. Companies have been identified and conversations are ongoing to convert these prospects into Association sponsors, but the risk exists that this projected increase in sponsorship revenue will not materialize.

List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022

- Improve alumni engagement and participation at the chapter/society level by implementing an improvement program that provides for myriad relevant connection activities. Further, establish a culture of giving through scholarships benefiting a local USF student with a goal of 70% of all chapters and societies having established scholarship endowments. USFAA currently has 43 chapters and societies, with 25 groups with established scholarship funds.

- The Association currently has 5,485 life members and continues to focus on life membership as a priority engagement imitative for alumni and friends of the university.
## INCOME STATEMENT

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 FINANCIAL PLAN (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership</td>
<td>$556</td>
<td>$515</td>
<td>$41</td>
<td>8%</td>
<td>$519</td>
<td>$490</td>
</tr>
<tr>
<td>University Support</td>
<td>625</td>
<td>625</td>
<td>0</td>
<td>0%</td>
<td>625</td>
<td>625</td>
</tr>
<tr>
<td>DSO (Foundation) Support</td>
<td>174</td>
<td>75</td>
<td>99</td>
<td>132%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Royalties</td>
<td>465</td>
<td>546</td>
<td>(81)</td>
<td>(15)%</td>
<td>532</td>
<td>576</td>
</tr>
<tr>
<td>License Plate Revenue</td>
<td>405</td>
<td>386</td>
<td>19</td>
<td>5%</td>
<td>432</td>
<td>383</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>282</td>
<td>250</td>
<td>32</td>
<td>13%</td>
<td>-</td>
<td>180</td>
</tr>
<tr>
<td>Investment Income</td>
<td>267</td>
<td>260</td>
<td>7</td>
<td>3%</td>
<td>259</td>
<td>238</td>
</tr>
<tr>
<td>Event and other Revenue</td>
<td>242</td>
<td>182</td>
<td>60</td>
<td>33%</td>
<td>157</td>
<td>194</td>
</tr>
<tr>
<td>Gifts and Donations</td>
<td>174</td>
<td>143</td>
<td>31</td>
<td>22%</td>
<td>195</td>
<td>179</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td><strong>$3,190</strong></td>
<td><strong>$2,982</strong></td>
<td><strong>$208</strong></td>
<td><strong>7%</strong></td>
<td><strong>$3,020</strong></td>
<td><strong>$2,865</strong></td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$1,916</td>
<td>$1,777</td>
<td>$139</td>
<td>8%</td>
<td>$1,726</td>
<td>$1,691</td>
</tr>
<tr>
<td>Membership and Membership Services</td>
<td>192</td>
<td>191</td>
<td>1</td>
<td>1%</td>
<td>217</td>
<td>181</td>
</tr>
<tr>
<td>Printing &amp; Duplicating</td>
<td>16</td>
<td>11</td>
<td>5</td>
<td>45%</td>
<td>23</td>
<td>14</td>
</tr>
<tr>
<td>Event Services</td>
<td>334</td>
<td>278</td>
<td>56</td>
<td>20%</td>
<td>274</td>
<td>246</td>
</tr>
<tr>
<td>Professional Services</td>
<td>85</td>
<td>95</td>
<td>(10)</td>
<td>(11)%</td>
<td>92</td>
<td>98</td>
</tr>
<tr>
<td>Postage</td>
<td>60</td>
<td>53</td>
<td>7</td>
<td>13%</td>
<td>57</td>
<td>53</td>
</tr>
<tr>
<td>Travel</td>
<td>63</td>
<td>57</td>
<td>6</td>
<td>11%</td>
<td>71</td>
<td>57</td>
</tr>
<tr>
<td>Advertising &amp; Marketing</td>
<td>18</td>
<td>26</td>
<td>(8)</td>
<td>(31)%</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td>Insurance</td>
<td>52</td>
<td>50</td>
<td>2</td>
<td>4%</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Community Relations</td>
<td>28</td>
<td>23</td>
<td>5</td>
<td>22%</td>
<td>28</td>
<td>42</td>
</tr>
<tr>
<td>Credit Card Fees</td>
<td>29</td>
<td>26</td>
<td>3</td>
<td>12%</td>
<td>21</td>
<td>25</td>
</tr>
<tr>
<td>Other expenses</td>
<td>17</td>
<td>24</td>
<td>(7)</td>
<td>(29)%</td>
<td>22</td>
<td>33</td>
</tr>
<tr>
<td>Bad debt expense</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>%</td>
<td>-</td>
<td>16</td>
</tr>
<tr>
<td>University Support - Scholarships</td>
<td>76</td>
<td>74</td>
<td>2</td>
<td>3%</td>
<td>74</td>
<td>76</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$2,886</strong></td>
<td><strong>$2,685</strong></td>
<td><strong>$201</strong></td>
<td><strong>7%</strong></td>
<td><strong>$2,682</strong></td>
<td><strong>$2,606</strong></td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-CASH CHANGES</strong></td>
<td>$304</td>
<td>$297</td>
<td>$7</td>
<td>2%</td>
<td>$338</td>
<td>$259</td>
</tr>
<tr>
<td>Unrealized Investment Gains (Losses)</td>
<td>341</td>
<td>128</td>
<td>214</td>
<td>167%</td>
<td>432</td>
<td>376</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td>$341</td>
<td>$128</td>
<td>$214</td>
<td>167%</td>
<td><strong>$432</strong></td>
<td><strong>$376</strong></td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td><strong>$645</strong></td>
<td><strong>$425</strong></td>
<td><strong>$221</strong></td>
<td><strong>52%</strong></td>
<td><strong>$770</strong></td>
<td><strong>$635</strong></td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>10%</td>
<td>10%</td>
<td>(0)%</td>
<td>11%</td>
<td>9%</td>
<td>12%</td>
</tr>
</tbody>
</table>
### STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Operating Profit</td>
<td>$645</td>
<td>$425</td>
<td>$221 52 %</td>
<td>$770</td>
<td>$635</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrealized gain on investments</td>
<td>(341)</td>
<td>(128)</td>
<td>(214) (167)%</td>
<td>(432)</td>
<td>(376)</td>
</tr>
<tr>
<td>Adjustments for Changes in Operating Assets and Liabilities</td>
<td>100</td>
<td>140</td>
<td>(40) (29)%</td>
<td>140</td>
<td>(99)</td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$404</td>
<td>$437</td>
<td>$(33) (8)%</td>
<td>$478</td>
<td>$160</td>
</tr>
<tr>
<td><strong>INVESTING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net (Purchases) Sales of Investments</td>
<td>$(401)</td>
<td>$(435)</td>
<td>$34 8 %</td>
<td>$(477)</td>
<td>$(155)</td>
</tr>
<tr>
<td>Total Cash From Investing Activities</td>
<td>$(401)</td>
<td>$(435)</td>
<td>$34 8 %</td>
<td>$(477)</td>
<td>$(155)</td>
</tr>
<tr>
<td><strong>FINANCING ACTIVITIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds of Long-Term Debt</td>
<td>$0</td>
<td>$0</td>
<td>$0 %</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Principal Payments</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Interest Payments</td>
<td>0</td>
<td>0</td>
<td>0 %</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Cash From Financing Activities</td>
<td>$0</td>
<td>$0</td>
<td>$0 %</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>CHANGE IN CASH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>3</td>
<td>3</td>
<td>1 36 %</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>7</td>
<td>6</td>
<td>1 17 %</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Total Cash &amp; Investments</td>
<td>$1,475</td>
<td>$1,382</td>
<td>$93 7 %</td>
<td>$1,382</td>
<td>$1,343</td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td>187</td>
<td>184</td>
<td>3 1 %</td>
<td>188</td>
<td>188</td>
</tr>
</tbody>
</table>
### University of South Florida Alumni Association, Inc.

**Annual Financial Plan for FY 2020**

3-YEAR FORECAST

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL &amp; ESTIMATED</th>
<th>FORECAST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY 2017</td>
<td>FY 2018</td>
</tr>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$1,224</td>
<td>$1,343</td>
</tr>
<tr>
<td>Restricted Cash &amp; Investments</td>
<td>5,535</td>
<td>5,957</td>
</tr>
<tr>
<td>Other Assets</td>
<td>365</td>
<td>313</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$7,124</td>
<td>$7,613</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables</td>
<td>$189</td>
<td>$99</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Liabilities</td>
<td>2,022</td>
<td>2,140</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$2,211</td>
<td>$2,239</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$4,913</td>
<td>$5,374</td>
</tr>
<tr>
<td><strong>Days Cash on Hand</strong></td>
<td>178</td>
<td>188</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership</td>
<td>$631</td>
<td>$533</td>
</tr>
<tr>
<td>University and Other Support</td>
<td>625</td>
<td>625</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>1,582</td>
<td>1,707</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$2,838</td>
<td>$2,865</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries &amp; Benefits</td>
<td>$1,514</td>
<td>$1,691</td>
</tr>
<tr>
<td>Event Expenses</td>
<td>237</td>
<td>246</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>755</td>
<td>669</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$2,506</td>
<td>$2,606</td>
</tr>
<tr>
<td>Operating Profit Before Non-Cash Changes</td>
<td>$332</td>
<td>$259</td>
</tr>
<tr>
<td>Total Non-Cash Changes</td>
<td>$538</td>
<td>$376</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$870</td>
<td>$635</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>12%</td>
<td>9%</td>
</tr>
</tbody>
</table>
State the DSO's Statutory Mission which Supports the Goals of the University

- The Financing Corporation is the University's financing arm and is expected to provide low cost, low risk, long-term financing for the University's major capital projects.

List Key Drivers for the 2020 Financial Plan Over 2019 - Focus on Cash Flows and Adequacy of Reserves

- The FY 2020 Financial Plan assumes that existing programs will continue to generate sufficient revenues to cover all debt service, operating and other costs, as well as providing adequate reserves.
  - Housing System Revenues for FY 2020 are based on Tampa and St. Petersburg budgets and a projected 1.40x debt service coverage ratio.
  - All other Revenues are based on reduced pass-through lease payments as a result of lower debt service requirements.

$30M Series 2018 Certificates of Participation - USF St. Petersburg Housing and Dining Project

- On January 16, 2019, the Corporation issued the $30M Series 2018 Certificates of Participation to fund the construction of the 375-bed USF St. Petersburg Housing and Dining Project. The final maturity date is 2048. The Certificates were issued at a tax-exempt all-in fixed interest rate of 3.99%. This is significantly less than the 5.00% interest rate included in the financing plan approved by the Board of Trustees in July 2018.
  - The cash flows from the issuance of the debt and the subsequent investment in capital assets are reflected in the FY 2019 Estimate and the FY 2020 Plan.
  - During construction, interest expense is capitalized and, thus, not reflected in the FY 2019 Estimate or the FY 2020 Plan.

$15M Series 2019 Refunding Certificates of Participation - Refunded the Series 2010B Housing Build America Bonds

- On January 16, 2019, the Corporation refunded the $15M outstanding Series 2010B Housing Build America Bonds with the issuance of the Series 2019 Refunding Certificates of Participation with a final maturity date of 2040. The Certificates were issued at a tax-exempt all-in fixed interest rate of 3.68%. This refunding resulted in annual debt service savings of $120,000. The present value savings of $1.8M equals 11.8% of the refunded debt and exceeds the 5% minimum refunding savings required by the Board of Governors.
  - The reduction in debt service is reflected in the lower Interest Expense in FY 2019 and FY 2020.

Anticipated $27M USF Research Park Mixed Use Lab and Office Project

- On April 30, 2019, the Corporation Board will consider the approval of $27M, 20-year, taxable, fixed rate Revenue Bonds to fund the construction of a 120,000 sq ft mixed use laboratory and office building to be located in the USF Research Park.
  - Upon approval by the Corporation Board, the Project is anticipated to be approved by the University Board of Trustees on June 6, 2019, and by the Florida Board of Governors in October 2019.

Describe Material Capital Expenditures in the 2020 Financial Plan - Provide Details and ROI Expectations

- $30 Million USF St. Petersburg Housing & Dining Project - The Project was approved by the Board of Governors in November 2018 and the debt was issued in January 2019.
  - Design and construction of the Project began in January 2019; the Project is expected to open in July 2020.
  - Based on revenue and expense assumptions, the Project is expected to generate a positive Net Present Value of $15.6 Million.
  - Project capital expenditures are expected to be $5.5 Million in FY 2019 and $20.5 Million in FY 2020.

- USF Health South Tampa - Muma Women's Center Project - $1.5 Million in project capital expenditures is expected in FY 2019.
Identify Key Risks That Might Affect the 2020 Financial Plan

- The Corporation manages exposures to adverse operating and financial performance on a monthly basis for each of its 14 debt programs, its interest rate swap, and the related University auxiliaries or DSOs.
- The Corporation closely manages its compliance programs, including compliance with the IRS, SEC, and bond/loan covenants.
- USF's borrowing rates have been affected by changes in market conditions and the rising yield curve.

List Major DSO Initiatives that will Drive Increases in Operating Earnings for 2021 and 2022

- The Corporation will continue to work with University and campus leaders to assist with structuring new debt programs or restructure existing programs to meet their needs.
- The Corporation will continue to maintain positive relationships with Moody's / Standard & Poor's, Board of Governors, Division of Bond Finance, and commercial and investment banks.
## USF Financing Corporation & USF Property Corporation

### Annual Financial Plan for FY 2020

### INCOME STATEMENT

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 FINANCIAL PLAN</th>
<th>FY 2019 ESTIMATE (as of 3/31/19)</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>FY 2017 ACTUAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing debt payment</td>
<td>$44,959</td>
<td>$44,860</td>
<td>$99</td>
<td>0%</td>
<td>$46,437</td>
<td>$47,783</td>
</tr>
<tr>
<td>Marshall Center debt payment</td>
<td>1,339</td>
<td>1,459</td>
<td>(120)</td>
<td>(8)%</td>
<td>1,459</td>
<td>1,496</td>
</tr>
<tr>
<td>Athletics debt payment</td>
<td>1,785</td>
<td>1,794</td>
<td>(9)</td>
<td>(1)%</td>
<td>1,787</td>
<td>1,960</td>
</tr>
<tr>
<td>Arena debt payment</td>
<td>778</td>
<td>821</td>
<td>(43)</td>
<td>(5)%</td>
<td>813</td>
<td>876</td>
</tr>
<tr>
<td>DSO (UMSA) debt payment</td>
<td>4,094</td>
<td>4,138</td>
<td>(44)</td>
<td>(1)%</td>
<td>4,392</td>
<td>4,262</td>
</tr>
<tr>
<td>DSO (HPCC) debt payment</td>
<td>1,450</td>
<td>1,453</td>
<td>(3)</td>
<td>(0)%</td>
<td>1,455</td>
<td>1,525</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td><strong>$54,405</strong></td>
<td><strong>$54,525</strong></td>
<td><strong>(120)</strong></td>
<td>(0)%</td>
<td><strong>$56,343</strong></td>
<td><strong>$58,127</strong></td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing operating expense</td>
<td>$25,624</td>
<td>$25,465</td>
<td>$159</td>
<td>1%</td>
<td>$26,906</td>
<td>$27,664</td>
</tr>
<tr>
<td>Management fee</td>
<td>719</td>
<td>706</td>
<td>13</td>
<td>2%</td>
<td>706</td>
<td>691</td>
</tr>
<tr>
<td>Interest expense on debt</td>
<td>10,521</td>
<td>11,233</td>
<td>(712)</td>
<td>(6)%</td>
<td>11,829</td>
<td>12,147</td>
</tr>
<tr>
<td>Depreciation expense</td>
<td>8,300</td>
<td>8,051</td>
<td>249</td>
<td>3%</td>
<td>8,005</td>
<td>7,825</td>
</tr>
<tr>
<td>General and administrative expenses</td>
<td>550</td>
<td>526</td>
<td>24</td>
<td>5%</td>
<td>560</td>
<td>574</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$45,714</strong></td>
<td><strong>$45,981</strong></td>
<td><strong>(267)</strong></td>
<td>(1)%</td>
<td><strong>$48,006</strong></td>
<td><strong>$48,901</strong></td>
</tr>
<tr>
<td><strong>OTHER REVENUES (EXPENSES)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University/DSO support - debt programs</td>
<td>$(9,075)</td>
<td>$(8,728)</td>
<td>$(347)</td>
<td>(4)%</td>
<td>$(8,457)</td>
<td>$(9,432)</td>
</tr>
<tr>
<td>Loss on debt extinguishment</td>
<td>0</td>
<td>(171)</td>
<td>171</td>
<td>100%</td>
<td>(28)</td>
<td>(71)</td>
</tr>
<tr>
<td>Interest income</td>
<td>500</td>
<td>454</td>
<td>46</td>
<td>10%</td>
<td>221</td>
<td>332</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$(8,575)</strong></td>
<td><strong>$(8,445)</strong></td>
<td><strong>$(130)</strong></td>
<td>(2)%</td>
<td><strong>$(8,264)</strong></td>
<td><strong>$(9,171)</strong></td>
</tr>
<tr>
<td><strong>OPERATING PROFIT BEFORE NON-CASH CHANGES</strong></td>
<td>$116</td>
<td>$99</td>
<td>$17</td>
<td>17%</td>
<td>$73</td>
<td>$55</td>
</tr>
<tr>
<td>Gain in INTO USF equity investment</td>
<td>500</td>
<td>500</td>
<td>0</td>
<td>0%</td>
<td>600</td>
<td>333</td>
</tr>
<tr>
<td>Change in fair value of swaps</td>
<td>0</td>
<td>(1,078)</td>
<td>1,078</td>
<td>100%</td>
<td>0</td>
<td>3,953</td>
</tr>
<tr>
<td>Support (to) from University/DSO to offset swaps</td>
<td>0</td>
<td>1,078</td>
<td>(1,078)</td>
<td>(100)%</td>
<td>0</td>
<td>(3,953)</td>
</tr>
<tr>
<td><strong>Total Non-Cash Changes</strong></td>
<td><strong>$500</strong></td>
<td><strong>$500</strong></td>
<td><strong>$0</strong></td>
<td>0%</td>
<td><strong>$600</strong></td>
<td><strong>$333</strong></td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td><strong>$616</strong></td>
<td><strong>$599</strong></td>
<td><strong>$17</strong></td>
<td>3%</td>
<td><strong>$673</strong></td>
<td><strong>$388</strong></td>
</tr>
</tbody>
</table>

Operating Profit Margin

<table>
<thead>
<tr>
<th>FY 2020</th>
<th>FY 2019</th>
<th>Variance</th>
<th>FY 2018</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2%</td>
<td>0.2%</td>
<td>0%</td>
<td>0.1%</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
## STATEMENT OF CASH FLOWS

(In thousands)

<table>
<thead>
<tr>
<th>OPERATING ACTIVITIES</th>
<th>FY 2020 ESTIMATE</th>
<th>Variance</th>
<th>FY 2019 FINANCIAL PLAN</th>
<th>Variance</th>
<th>FY 2018 ACTUAL RESULTS</th>
<th>Variance</th>
<th>FY 2017 ACTUAL RESULTS</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Operating Profit</td>
<td>$616</td>
<td>$599</td>
<td>$17 $17 $3 %</td>
<td>$673</td>
<td>$388 $388</td>
<td>$1,851</td>
<td>$1,851</td>
<td>$1,851</td>
</tr>
<tr>
<td>Adjustments for Non-Cash Activities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amortization of debt issuance costs</td>
<td>98</td>
<td>94</td>
<td>4 $4 $4 %</td>
<td>91</td>
<td>89</td>
<td>89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loss on debt extinguishment</td>
<td>0</td>
<td>171</td>
<td>(171) (100%)</td>
<td>28</td>
<td>71</td>
<td>54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation expense</td>
<td>8,300</td>
<td>8,051</td>
<td>249 $249 $3 %</td>
<td>8,005</td>
<td>7,825</td>
<td>7,811</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amortization of premiums on debt</td>
<td>1,797</td>
<td>1,580</td>
<td>(1,580) (100%)</td>
<td>0</td>
<td>(3,953)</td>
<td>(6,945)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change in fair value of swaps</td>
<td>(500)</td>
<td>(500)</td>
<td>0 0 %</td>
<td>(600)</td>
<td>(335)</td>
<td>(1,835)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash dividend received from INTO USF</td>
<td>0</td>
<td>0</td>
<td>0 0 %</td>
<td>0</td>
<td>0</td>
<td>6,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changes in Operating Assets and Liabilities</td>
<td>20,157</td>
<td>23,266</td>
<td>(3,109) (13%)</td>
<td>21,253</td>
<td>23,697</td>
<td>21,936</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cash From Operating Activities</td>
<td>$26,874</td>
<td>$31,179</td>
<td>$(4,305) (14%)</td>
<td>$27,870</td>
<td>$26,061</td>
<td>$27,121</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INVESTING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Expenditures</td>
<td>$(20,467)</td>
<td>$(6,617)</td>
<td>$(13,850) (209%)</td>
<td>$(800)</td>
<td>$(4,177)</td>
<td>$0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds from maturity of CD</td>
<td>5,736</td>
<td>6,096</td>
<td>(360) (6%)</td>
<td>6,024</td>
<td>6,000</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase of CD</td>
<td>(5,736)</td>
<td>(5,596)</td>
<td>(140) (3%)</td>
<td>(6,096)</td>
<td>(6,024)</td>
<td>(6,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net (Purchases) Sales of Investments</td>
<td>20,258</td>
<td>(27,672)</td>
<td>47,930 173 %</td>
<td>(2,242)</td>
<td>(1,644)</td>
<td>(3,155)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cash From Investing Activities</td>
<td>$(209)</td>
<td>$(33,789)</td>
<td>$33,580 99 %</td>
<td>$(3,114)</td>
<td>$(5,845)</td>
<td>$(9,155)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FINANCING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash Paid for Debt Issuance Costs</td>
<td>$0</td>
<td>$(463)</td>
<td>$463 100 %</td>
<td>$(53)</td>
<td>$(58)</td>
<td>$(53)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds of Long-Term Debt</td>
<td>0</td>
<td>30,140</td>
<td>(30,140) (100%)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceeds of Long-Term Debt - Refunding</td>
<td>0</td>
<td>33,065</td>
<td>(33,065) (100%)</td>
<td>17,925</td>
<td>33,708</td>
<td>37,920</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal Payments - Refunding</td>
<td>0</td>
<td>(33,065)</td>
<td>33,065 100 %</td>
<td>(17,925)</td>
<td>(33,708)</td>
<td>(37,920)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal Payments</td>
<td>(12,839)</td>
<td>(12,198)</td>
<td>(641) (5%)</td>
<td>(12,198)</td>
<td>(11,733)</td>
<td>(11,076)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest Payments</td>
<td>(13,826)</td>
<td>(13,369)</td>
<td>(457) (3%)</td>
<td>(13,505)</td>
<td>(13,815)</td>
<td>(12,337)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security Pledged to (Returned from) Counterparty</td>
<td>0</td>
<td>(1,000)</td>
<td>1,000 100 %</td>
<td>1,000</td>
<td>5,390</td>
<td>5,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cash From Financing Activities</td>
<td>$(26,665)</td>
<td>$3,110</td>
<td>$(29,775) (957%)</td>
<td>$(24,756)</td>
<td>$(20,216)</td>
<td>$(17,966)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHANGE IN CASH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash, Beginning of Year</td>
<td>503</td>
<td>3</td>
<td>500 16,667 %</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash, End of Year</td>
<td>$503</td>
<td>$503</td>
<td>$0 0 %</td>
<td>$3</td>
<td>$3</td>
<td>$3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cash &amp; Investments</td>
<td>$47,168</td>
<td>$67,812</td>
<td>$(20,644) (30%)</td>
<td>$42,080</td>
<td>$40,067</td>
<td>$38,400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td>395</td>
<td>398</td>
<td>(3) (1%)</td>
<td>370</td>
<td>342</td>
<td>339</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# USF Financing Corporation & USF Property Corporation

## Annual Financial Plan for FY 2020

### 3-YEAR FORECAST

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL &amp; ESTIMATED</th>
<th>FORECAST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY 2017</td>
<td>FY 2018</td>
</tr>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash &amp; Investments</td>
<td>$38,400</td>
<td>$40,067</td>
</tr>
<tr>
<td>Fixed Assets</td>
<td>241,654</td>
<td>239,679</td>
</tr>
<tr>
<td>Other Assets</td>
<td>83,567</td>
<td>68,873</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>$363,621</td>
<td>$348,619</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payables - Interest and Construction</td>
<td>$5,708</td>
<td>$7,348</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>334,976</td>
<td>321,621</td>
</tr>
<tr>
<td>Interest Rate Swap &amp; Other Liabilities</td>
<td>17,504</td>
<td>13,829</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td>$358,188</td>
<td>$342,798</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td>$5,433</td>
<td>$5,821</td>
</tr>
<tr>
<td>Days Cash on Hand</td>
<td>339</td>
<td>342</td>
</tr>
<tr>
<td><strong>REVENUES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing debt payment</td>
<td>$44,522</td>
<td>$47,783</td>
</tr>
<tr>
<td>DSO (UMSA) Debt Payment</td>
<td>4,085</td>
<td>4,262</td>
</tr>
<tr>
<td>DSO (HPCC) Debt Payment</td>
<td>1,851</td>
<td>1,750</td>
</tr>
<tr>
<td>Other Debt Payments</td>
<td>4,391</td>
<td>4,332</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>$54,849</td>
<td>$58,127</td>
</tr>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing Operating Expense</td>
<td>$25,994</td>
<td>$27,664</td>
</tr>
<tr>
<td>Interest Expense on Debt</td>
<td>12,330</td>
<td>12,147</td>
</tr>
<tr>
<td>Depreciation Expense</td>
<td>7,811</td>
<td>7,825</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>1,213</td>
<td>1,336</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>$47,348</td>
<td>$48,972</td>
</tr>
<tr>
<td><strong>OTHER REVENUES / EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University/DSO support - debt programs</td>
<td>(7,502)</td>
<td>(9,432)</td>
</tr>
<tr>
<td>Other Revenues - Interest Income</td>
<td>17</td>
<td>332</td>
</tr>
<tr>
<td><strong>Total Other Revenues / Expenses</strong></td>
<td>$(7,485)</td>
<td>$(9,100)</td>
</tr>
<tr>
<td>Operating Profit Before Non-Cash Changes</td>
<td>$16</td>
<td>$55</td>
</tr>
<tr>
<td>Total Non-Cash Changes - INTO USF</td>
<td>$1,835</td>
<td>$333</td>
</tr>
<tr>
<td><strong>NET OPERATING PROFIT</strong></td>
<td>$1,851</td>
<td>$388</td>
</tr>
<tr>
<td>Operating Profit Margin</td>
<td>0.0%</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
**Agenda Item: FL 119**

**USF Board of Trustees**  
**June 6, 2019**

**Issue:** Lease of space to Tampa General Hospital

**Proposed action:** Approval to lease space to Tampa General Hospital

**Executive Summary:**

Tampa General Hospital is a long-standing strategic partner to USF in many areas.

USF Health has reached a tentative agreement with Tampa General Hospital (TGH) whereas TGH will transfer $20 million to USF Health in consideration for a long-term lease of space in USF Health’s new Morsani College of Medicine (MCOM) and Heart Institute in downtown Tampa. The leased space will be used to deliver joint USF Health/TGH healthcare-related services in coordination with the clinical, teaching and research missions of the new building. The context for this agreement is the accelerating clinical partnership and integration between USF Health and TGH.

The lease is for approximately 25,000 square feet, will be prepaid in its entirety in advance, and covers a 25 year period.

The lease was approved by the TGH board on May 6, 2019.

**Financial Impact:** $20 million (inflow to USF)

**Strategic Goal(s) Item Supports:** Goal 4 - Sound financial management  
**Committee Review Date:** May 14, 2109  
**Supporting Documentation Online (please circle):** Yes  
**USF System or Institution specific:** USF Health  
**Prepared by:** David Lechner, Sr. Vice President Business & Financial Strategy
USF Health

Prepaid Lease with TGH
Presentation to Finance Committee
May 14, 2019
Objective

- Share the proposed transaction
- Obtain approval of transaction
Key Deal Points

• Lease of approximately 25,000 square feet
  • First floor – 6,501
  • Ninth floor – 8,933
  • Twelfth floor – 9,679
• Lease term – 25 years
• Includes signage
• Includes common area costs of $10 / sf in advance
• Consideration – payment of $20 million in advance
Other Factors

• Rentals per square foot (net)
  • First floor  - $49 (plus actual operating costs)
  • Ninth and Twelfth $35 (plus common area costs at actual)
• Rates supported by third party real estate consultant
Strategic Advantages to Transaction

• Integral to teaching, research and outreach missions
• Solidifies the strategic partnership
• Creates co-branded imaging center on ground floor
• Creates TGH urgent care on the ground floor
• Creates heart health co-location on ninth floor
• Creates executive wellness on twelfth floor
• Paves the way for increasing partnerships
Questions?
Agenda Item: FL 120

USF Board of Trustees
June 6, 2019

Issue: Naming Projects

Proposed action: Approve the 11 Presented Naming Projects for Philanthropic Giving and Service to the University of South Florida

Executive summary:

Pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System. The individuals below have made significant contributions to the University in the form of material gifts and special service.

a. Krishnakanth Barri Conference Room at College of Engineering ($510,000)
b. Robert C. Rothman Defensive Staff Conference Room at USF Football Center ($250,000)
c. Hooters Huddle Outdoor Players’ Lounge at USF Football Center ($250,000)
d. Glenn H. Ruediger Coach’s Quarterback Room at USF Football Center ($100,000)
e. Copperhead Charities/Valspar Championship Short Game Area at USF Golf Center ($100,000)
f. Greenberg & Weiss Student Commons for MD Collegia Students at Morsani College of Medicine and Heart Institute at Water Street ($100,000)
g. Valeria Riddle and David Reader ’89 MD Collegia Suite at Morsani College of Medicine and Heart Institute at Water Street ($100,000)
h. Clara Schiller Perpetual Charitable Trust Lobby at Morsani College of Medicine and Heart Institute at Water Street ($50,000)
i. Lewis A. Barness, M.D. Lactation Room at USF Health Center for Wellness, Engagement, Leadership and Learning ($25,000)
j. The Genshaft Pavilion at USF Sarasota-Manatee Campus (for service to the University)
k. Weatherford Family Atrium at Morsani College of Medicine and Heart Institute at Water Street (for service to the University)

Prepared by: Travis Miller, Office of the President
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Krishnakanth Barri has provided support to the USF System and USF College of Engineering including a gift of $510,000 to support the Barri Electrical Engineering Fellowships to promote future success of USF students and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming the ENB261-Electrical Engineering Conference Room within the College of Engineering in honor of Krishnakanth Barri;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE ENB 261-ELECTRICAL ENGINEERING CONFERENCE ROOM THE “KRISHNAKANTH BARRI CONFERENCE ROOM” IN RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of __________ 2019.

__________________________________________  _____________________________
Jordan Zimmerman, Chair                      Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Robert C. Rothman has provided support to the USF System and USF Intercollegiate Athletic Department over many years including a gift of $250,000 toward the construction of the USF Football Center, to promote the future success of USF student-athletes and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming the USF Football Center Defensive Staff Conference Room in honor of Robert C. Rothman;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE USF FOOTBALL CENTER DEFENSIVE STAFF CONFERENCE ROOM THE “ROBERT C. ROTHMAN DEFENSIVE STAFF CONFERENCE ROOM” IN RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of __________ 2019.

_________________________________   __________________________________
Jordan Zimmerman, Chair                  Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Hooters Management Corporation has provided support to the USF System and USF Intercollegiate Athletic Department through a gift of $250,000 toward the construction of the USF Football Center, to promote the future success of USF student-athletes and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming the USF Football Center Outdoor Players’ Lounge in recognition of Hooters Management Corporation;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE USF FOOTBALL CENTER OUTDOOR PLAYERS’ LOUNGE AS THE “HOOTERS HUDDLE” IN RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of __________ 2019.

_____________________________________________  _______________________________
Jordan Zimmerman, Chair  Judy Genshaft, Corporate Secretary
WHEREAS, Linda J. Ruediger and her late husband, Glenn H. Ruediger, have provided support to the USF System and USF Intercollegiate Athletic Department over many years, including Linda Ruediger’s gift in memory of her husband of $100,000 toward the construction of the USF Football Center, to promote the future success of USF student-athletes and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming the USF Football Center Quarterback Coach’s Room in memory of Glenn H. Ruediger;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE USF FOOTBALL CENTER COACH’S QUARTERBACK ROOM THE “GLENN H. RUEDIGER COACH’S QUARTERBACK ROOM” IN MEMORY, RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of ____________ 2019.

_____________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Copperhead Charities/Valspar Championship has been a longtime partner and provided support to the USF System and USF Intercollegiate Athletic Department including a commitment of $100,000 to benefit the USF Golf Program through naming the Short Game Area of the USF Golf Center, to accelerate the development of the USF Golf Program into a national model, to elevate the academic and athletic performance of USF student athletes and coaching staff and to drive further philanthropic opportunities; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming the Short Game Area of the USF Golf Center in honor of Copperhead Charities/Valspar Championship;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE SHORT GAME AREA OF THE USF GOLF CENTER THE “COPPERHEAD CHARITIES/VALSPAR CHAMPIONSHIP SHORT GAME AREA” IN HONOR, RECOGNITION AND APPRECIATION OF THE PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of _____________ 2019.

_____________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Michael Weiss and Karen Weiss and Dale Greenberg and Maria Greenberg have provided support to the USF System and USF Health collectively through a gift of $100,000 toward the construction of the USF Health Morsani College of Medicine at Water Street, to promote the future success of USF students and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming a Student Commons area in recognition of their generosity;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME A STUDENT COMMONS AREA IN THE USF HEALTH MORSANI COLLEGE OF MEDICINE AT WATER STREET AS THE “GREENBERG & WEISS STUDENT COMMONS FOR MD COLLEGIATE STUDENTS” IN RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of __________ 2019.

_________________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Valerie Riddle and David Reader have provided support to the USF System and USF Health through a gift of $100,000 toward the construction of the USF Health Morsani College of Medicine at Water Street, to promote the future success of USF students and the educational mission of the university; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of this donation, the President of the University recommends naming an MD Collegia Suite in recognition of their generosity;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME AN MD COLLEGIA SUITE IN THE USF HEALTH MORSANI COLLEGE OF MEDICINE AT WATER STREET AS THE “VALERIE RIDDLE AND DAVID READER ’89 MD COLLEGIA SUITE” IN RECOGNITION AND APPRECIATION OF PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of ______________ 2019.

_________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, The Clara Schiller Perpetual Charitable Trust, established through the legacy of Miss Schiller’s life-time commitment to fund heart disease medical research, has provided many years of support, and to date, $385,000 to the USF System and USF Health’s Morsani College of Medicine for cardiovascular research including a current gift of $50,000 to benefit the Morsani College of Medicine and Heart Institute at Water Street, Tampa; and,

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of these contributions, the President of the University recommends naming the 9th Floor Departmental Lobby in the Morsani College of Medicine and Heart Institute at Water Street in honor of the Clara Schiller Perpetual Charitable Trust;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE 9th FLOOR DEPARTMENTAL LOBBY IN THE MORSANI COLLEGE OF MEDICINE AND HEART INSTITUTE AT WATER STREET THE “CLARA SCHILLER PERPETUAL CHARITABLE TRUST LOBBY” IN HONOR, RECOGNITION AND APPRECIATION OF THE PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of _____________ 2019.

_____________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, in recognition of Lewis A. Barness, M.D., Inaugural Chair USF Department of Pediatrics, whose scientific research advocated the benefits of breast milk for infants, a group of donors made a $25,000 commitment to name in his honor the Lactation Room in the USF Health Center for Wellness, Engagement, Leadership and Learning on the USF campus; and,

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of his many achievements and contributions, the President of the University recommends naming the Lactation Room in the USF Health Center for Wellness, Engagement, Leadership and Learning in posthumous honor of Dr. Lewis A. Barness;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE LACTATION ROOM IN THE USF HEALTH CENTER FOR WELLNESS, ENGAGEMENT, LEADERSHIP AND LEARNING THE “LEWIS A. BARNESS, M.D. LACTATION ROOM” IN POSTHUMOUS HONOR, RECOGNITION AND APPRECIATION OF HIS ACADEMIC AND PHILANTHROPIC SUPPORT PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of ____________ 2019.

_____________________________ _____________________________
Jordan Zimmerman, Chair Judy Genshaft, Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Judy Genshaft has made significant contributions to the University of South Florida System throughout her 19 years of service. Under Genshaft’s leadership, the University of South Florida achieved considerable goals and attained national and international recognition in key institutional areas including student success, research and innovation, fundraising and economic development; and

WHEREAS, Dr. Genshaft has demonstrated visionary leadership and support of the University of South Florida Sarasota-Manatee. During her tenure, the University of South Florida Sarasota-Manatee established the current campus, welcomed the first freshman class, and expanded programs and service; and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of these significant contributions, the Regional Chancellor of the University of South Florida Sarasota-Manatee recommends the naming of the “The Genshaft Pavilion” located on the University of South Florida Sarasota-Manatee campus in honor of Judy Genshaft;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE GENSHAFT PAVILION ON THE UNIVERSITY OF SOUTH FLORIDA SARASOTA-MANATEE CAMPUS IN HONOR, RECOGNITION AND APPRECIATION OF THE SIGNIFICANT CONTRIBUTIONS PROVIDED TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of ______________ 2019.

______________________________
Jordan Zimmerman, Chair

______________________________
Cynthia S. Visot, Asst. Corporate Secretary
UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES

RESOLUTION

WHEREAS, Speaker Will Weatherford has been a steadfast supporter of the University of South Florida during his service in the Florida House of Representatives and specifically an advocate for the USF Health Morsani College of Medicine and Heart Institute at Water Street and,

WHEREAS, during his service as the Speaker-designate and as the Speaker of the Florida House of Representatives from 2012 through 2014, Will Weatherford was integral in securing the first state funding provided to the University of South Florida to construct both the USF Health Heart Institute and the new Morsani College of Medicine facilities, and

WHEREAS, following his service in the Florida House, Will Weatherford has continued to advocate for funding and for the overall success of the project up through its scheduled completion in 2019, and

WHEREAS, pursuant to BOG Regulation 9.005, the University of South Florida Board of Trustees is vested with naming authority for all buildings, facilities and academic units of the USF System; and

WHEREAS, in recognition of his many achievements and contributions to the USF System, and for his tireless efforts to begin the process of securing state funds for this transformational project for USF, the President of the University recommends naming the Atrium in the USF Health Morsani College of Medicine and Heart Institute in honor of the Weatherford Family;

NOW, THEREFORE, BE IT RESOLVED THAT THE UNIVERSITY OF SOUTH FLORIDA BOARD OF TRUSTEES AFFIRMS THE DECISION TO NAME THE ATRIUM IN THE USF HEALTH MORSANI COLLEGE OF MEDICINE AND HEART INSTITUTE AT WATER STREET THE “WEATHERFORD FAMILY ATRIUM” IN HONOR, RECOGNITION AND APPRECIATION OF THE CONTRIBUTIONS OF WILL WEATHERFORD TO THIS UNIVERSITY.

PASSED AND ADOPTED by the University of South Florida Board of Trustees, a public body corporate of the State of Florida, at a public meeting thereof duly called and held this ___ day of _____________ 2019.
Agenda Item: FL 121

USF Board of Trustees
June 6, 2019

Issue: Direct Support Organization Board Members

Proposed action: Approve Direct Support Organization Board Members

Executive summary:

Per Florida Statute Section 1004.28 and USF System Regulation 13.002, the USF Board of Trustees must approve members of Direct Support Organizations’ Boards of Directors.

USF Institute of Applied Engineering

Pursuant to the requirements under a grant funding agreement entered into between the USF Institute of Applied Engineering (the “Institute”) and Hillsborough County, a County representative must sit on the Board of Directors. The County has recommended Hillsborough County Administrator Michael Merrill to fill this role and the Institute is seeking approval of his appointment.

Mr. Merrill has served as Hillsborough County Administrator since June 2010. Mr. Merrill has a long history of serving Hillsborough County, serving as the Director of the County’s Debt Management Department since 1988 and, in addition, was appointed as the Assistant County Administrator for Utilities and Commerce in November 2008. Prior to that, Mr. Merrill worked in Europe as a finance director, managing subsidiaries of a publicly held U.S. capital goods manufacturer and has previous experience in commercial real estate finance, corporate finance, and public finance.

Mr. Merrill is a graduate of Marquette University and holds an MA from the University of South Florida.

Mr. Merrill is eligible for an appointment ending 2022.

USF Research Foundation

John Morrow is CEO of Morrow Consultants, an organization that specializes in helping clients leverage the usage of intelligent machines in their own systems and products, giving them a key competitive advantage of many companies. Mr. Morrow currently serves on the Forbes AI Executive Advisory Board and Intrinio Board of Directors, and is also an entrepreneur in residence with USF CONNECT and the Sustainable Entrepreneurship & Innovation Alliance at USF St. Petersburg. Mr. Morrow holds degrees in physics and mathematics from Vanderbilt University.
**Gwen Mitchell** is partner at Deloitte & Touche and has 39 years of experience in public accounting, primarily serving clients in consumer business, heavy manufacturing and distribution. Ms. Mitchell has served as the lead client service partner on significant global public reporting, mid size and private clients and as a leader in community organizations and the firm’s quality network as part of the inspections and monitoring group and is currently serving as senior partner advisor in Deloitte’s audit technology and transformation group. Ms. Mitchell also has experience serving the community, such as the Tampa Chamber of Commerce Board and USF School of Accounting Advisory Board. Ms. Mitchell has a Bachelor of Accountancy from the University of Oklahoma and is a CPA in Florida, Texas and Oklahoma.

**Marc Blumenthal** is partner of Florida Funders, a Florida-focused venture capital firm that blends traditional capital venture funding with a curated crowd of accredited investors, allowing the firm to better benefit companies through a larger network. Mr. Blumenthal is also founder of Synapse, a non-profit focused on helping Florida’s innovation and entrepreneurial ecosystems grow and thrive.

Mr. Morrow, Ms. Mitchell and Mr. Blumenthal are eligible for appointments ending June 30, 2022.

**USF Alumni Association**

**Troy Dunmire – Director**
- BS 2000, Marketing
- Vice President of Stores, Gap
- Successful marketing executive

**Brielle Iacobino – Director**
- USF Student – Chemical and Biomedical Engineering
- President, USF Ambassadors
- USF Ambassadors position on USFAA Board

**Ruben Matos – Director**
- MPH 1992, Public Health
- Lt. Colonel, United States Air Force
- Extensive experience in health and medical security
- Former USFAA chapter leader

**Travis McCloskey – Director**
- USF Student – Information Systems/Decision Sciences
- Vice President, Student Government – Tampa
- USF Student Government position on USFAA Board

**Randy Norris – Chair-Elect**
- BA 1979, Marketing
- Regional Sales Manager, Monadnock Paper Mills
- Former treasurer of USFAA Board with 40 years of involvement with USF

**Luz Randolph, Ed.D. – Director**
- BA 2006, Communication, Curriculum & Instruction
- Assistant Director of Diversity Initiatives, USF Foundation
- USF faculty/staff position on USFAA Board
- Fundraising and event experience

**Valerie Riddle, M.D. – Director**
- BA 1984, Chemistry; MD 1989, Medicine
- Associate Dean for Alumni Engagement & Faculty, USF Health
- USF Foundation Board position on USFAA Board
- Generous benefactor to USF
Lauren Shumate – Director  
- BA 2010, Criminology; MA 2014, Political Science  
- Attorney, Gunster, Yoakley and Stewart, P.A.  
- Fulbright recipient and Rhodes Scholar nominee while at USF  
- Former professional tennis player

Maggie Fowler – Director (renewal)  
- BS 1993, Management Information Systems  
- Customer Strategy Manager, DXC Concerto  
- Experienced information technology sales and account management professional

Christine Turner – Director  
- BA 1997, Public Relations  
- Principal – Executive Vice President, ChappellRoberts, Inc.,  
- Former Leadership Tampa Chair  
- USF Fast 56 award recipient

Brigid Merenda – Director (renewal)  
- BA 1997, International Studies  
- Attorney/Shareholder, Trenam Law  
- USF Athletics position on USFAA Board  
- President, USF Varsity Club Board of Directors

Tonjua Williams, Ph.D. – Director  
- MA 1996, Guidance and Counselor Education  
- President, Saint Petersburg College  
- Experienced leader in multi-campus college environment

Bruce Van Fleet – Director (renewal)  
- BA 1973, Marketing  
- Retired and owner of Belleair Market  
- Extensive financial and marketing experience  
- USF Fast 56 award recipient

Liz Wooten-Reschke – Director  
- BS 2001, English Education; MPA 2006, Public Administration  
- President/Lead Consultant, Connectivity Community Consultants  
- Extensive non-profit leadership experience

USF Foundation

Joie Chitwood, ’95 (renewal) – Joie is the Chief Operating Officer of the International Speedway Corporation and resides in Lake Mary, Florida. An alumnus of the Muma College of Business, Chitwood is also the 2014 recipient of the USF Alumni Association Distinguished Alumnus Award and an active member of the USF Foundation Board of Directors since 2016.

Mike Griffin, ’03 (renewal) – Mike is a senior managing director for Savills Studley. While pursuing his degree in Marketing from the Muma College of Business, Griffin served as Student Government President and a charter member of the USF Board of Trustees. He is past Chair of the Tampa Chamber of Commerce, Chair of the USF Consolidation Task Force and an active member of the USF Foundation Board of Directors since 2016.
**Donna Longhouse,'84 (renewal)** – Donna is an attorney and shareholder at Allen Dell Attorneys at Law. She earned her bachelor's in English from USF where she is a Lifetime Member of the Alumni Association. Since 2016, Donna has actively served on the USF Foundation Board of Directors.

**Samuel “Sam” P. Bell** – Bell graduated Dartmouth College and Duke University and served as a Florida State Representative from '74 – '88. Sam has been actively involved at USF for many years. He is an advocate for USF Health and helped found the university's College of Public Health. In 2018, Bell was awarded the USF Alumni Association’s Class of ’56 Award, presented annually to a non-alumnus who has provided distinguished service to the university and community.

**Brad Bernstein, ’84** – Brad is the Managing Director, Head of the Equity Group of Monroe Capital and resides in Bloomington, Illinois. Brad, an alumnus of the Muma College of Business, has served as an active member on the Dean’s Executive Advisory Council since 2007.

**William “Bill” Mariotti, ’15** – Bill is a ’15 graduate of the Muma College of Business and President and CEO of Bill Mariotti Site Development Company. Bill served on the USF Alumni Association Board, is a Life Member and member of the USF Sarasota-Manatee Campus Board.

**Rena Upshaw-Frazier, ’01** – Rena graduated USF with a degree in Civil Engineering and earned her Juris Doctorate from Stetson. Rena is a private practice attorney and serves on the University Area Community Development Board.

**Panos Vasiloudes, M.D.** – Dr. Vasiloudes is President and CEO, Academic Alliance in Dermatology. He is actively involved with the Morsani College of Medicine and serves on the USF Water Street Tampa Campaign Cabinet.

---

**Prepared by:** Travis Miller, Office of the President
“Flavors of Money”

Presentation to the Board of Trustees
June 6, 2019
The “Why”

Share overview as required by Board of Governors
Desired Outcomes

• Familiarity with regulations
• Overview of budgets and funding sources
• Update on latest changes
• Proposal on future agenda items
Flavors of Money

- Delegation to Boards of Trustees
- Board of Governors Regulations¹
- SUS Operating Budget
- SUS Fixed Capital Outlay Budget

¹ BOG slides are prior to changes promulgated in the 2019 session and in BOG meetings / communications since March.
Delegated Powers and Duties
(1) Pursuant to Article IX, section 7(c), Florida Constitution, the Board of Governors shall establish the powers and duties of the board of trustees as set forth herein and as may be established in Board of Governors’ regulations. This regulation supersedes the delegation of authority to the boards of trustees contained in the Board of Governors’ Resolution dated January 7, 2003. The intent of this regulation is to delegate powers and duties to the university boards of trustees so that the university boards have all of the powers and duties necessary and appropriate for the direction, operation, management, and accountability of each state university.

(6) Each board of trustees shall be responsible for the financial management of its university and shall submit an institutional budget request, including a request for fixed capital outlay, and an operating budget to the Board of Governors for approval in accordance with the guidelines established by the Board of Governors.
(1) Pursuant to Article IX, section 7(c), Florida Constitution, the Board of Governors shall establish the powers and duties of the board of trustees as set forth herein and as may be established in Board of Governors’ regulations. This regulation supersedes the delegation of authority to the boards of trustees contained in the Board of Governors’ Resolution dated January 7, 2003. The intent of this regulation is to delegate powers and duties to the university boards of trustees so that the university boards have all of the powers and duties necessary and appropriate for the direction, operation, management, and accountability of each state university.

(6) Each board of trustees shall be responsible for the financial management of its university and shall submit an institutional budget request, including a request for fixed capital outlay, and an operating budget to the Board of Governors for approval in accordance with the guidelines established by the Board of Governors.
(1) Each university **president shall prepare an operating budget for approval by the university board of trustees**, in accordance with instructions, guidelines, and standard formats provided by the Board of Governors.

(2) The university board of trustees-ratified operating budget is **presented to the Board of Governors for approval**. Each university president shall implement the operating budget of the university as prescribed by regulations of the Board of Governors, policies of the university board of trustees, provisions of the General Appropriations Act, and data reflected within the SUS Allocation Summary and Workpapers publication.
Selected Florida Statutes

1011.45 End of year balance of funds

*Unexpended amounts* in any fund in a university current year operating budget shall be carried forward and included at the balance forward for that fund in the approved operating budget for the following year.

1011.90(4) State university funding

Expenditure analysis, operating budgets, and annual financial statements of each university must be prepared using the *standard financial reporting procedures and formats* prescribed by the BOG.

1011.91 (1) Additional appropriations

Except as otherwise provided in the General Appropriations Act, *all money that comes from federal grants, student fees, private sources, and from vending machine collections is discretionary, however, the budget must be approved and these funds may not be expended for construction*, except as provided by S. 1013.74. F.S.
Budgets, Fund Types and Restrictions
SUS 2018-2019 Total Operating Budget

Financial aid, student activities, athletics, technology, concessions, Board approved fees

Collects & distributes income from faculty billings for patient services performed at medical schools or clinics

Housing, parking, food services, bookstores, continuing education and other auxiliary units that support the university

Takeaway – a $5 billion E&G Budget

$ 10.9 Billion
# USF System Total Budget

(In Millions)

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education &amp; General</td>
<td>$714.0</td>
<td>31%</td>
</tr>
<tr>
<td>Contracts &amp; Grants</td>
<td>$418.2</td>
<td>18%</td>
</tr>
<tr>
<td>Local Funds</td>
<td>$482.7</td>
<td>21%</td>
</tr>
<tr>
<td>Faculty Practice*</td>
<td>$261.3</td>
<td>12%</td>
</tr>
<tr>
<td>Auxiliaries</td>
<td>$222.1</td>
<td>10%</td>
</tr>
<tr>
<td>E&amp;G Carryforward</td>
<td>$185.4</td>
<td>8%</td>
</tr>
</tbody>
</table>

* Excludes $43.6mm in Non-Operating items

**Takeaway – a $ 714 million E & G Budget**

**$ 2.3 Billion**
SUS 2018-2019 E&G Budget - Sources

- General Revenue, $2,784,187,595
- Phosphate Research, $5,123,263
- Tuition, $1,908,492,345
- Lottery, $302,567,484

Total: $5 Billion
USF System E&G Sources
(In Millions)

- 2015-16: $167
- 2016-17: $175
- 2017-18: $189
- 2018-19: $185

July 1 Carryforward Balance
USF System E&G Sources
(In Millions)
$714 Million
Education & General (E&G)

✓ Appropriated by the Legislature/Governor each fiscal year (July 1 to June 30).
✓ Includes General Revenue, Lottery, Student Tuition & Fees, and Phosphate Research (Florida Polytechnic University only).
✓ Board of Governors Regulation 9.007.
  ✓ E&G funds are **used for operating activities only**, such as, but not limited to, general instruction, public service, plant operations and maintenance, student services, libraries, administrative support, and other enrollment-related and stand-alone operations of the universities.
✓ **Ending fund balances (carryforward) shall be used for operating activities only except where expressly allowed by law.** Operating activities included, but are not limited to, unfunded enrollment growth, potential budget reductions, anticipated increases in university operations, and prior year encumbrances.

NEW
Approved CFD Plan
Due August
At any time the unencumbered available balance in the E&G fund of the university board of trustees approved operating budget falls below five (5) percent of the approved total, the president shall provide a written notification and explanation to the Board of Governors.

Interest earnings resulting from the investment of current-year E&G appropriations are considered to be of the same nature as the original appropriations, and are subject to the same expenditure regulations as the original appropriations. E&G interest earnings are not to be utilized for non-E&G related activities or for fixed capital outlay activities except where expressly allowed by law. Interest earnings resulting from invested carryforward funds are considered to be additions to the university’s carryforward balance.

NEW
Unencumbered Balance must be 7%
“Non-E&G” Budgets, Fund Types, and Restrictions
SUS 2018-2019 Operating Budget
Contracts & Grants

$ 2.4 Billion

- Sponsored Research: $1,649,784,655 (68%)
- Developmental Research Schools: $39,584,781 (2%)
- Grants/Donations: $745,208,089 (30%)
USF System E&G Budget
(In Millions)

- Federal $258.0 (62%)
- Private $120.0 (29%)
- State, Local & Other $40.1 (9%)

$418 Million
Contract and Grants

✓ Sponsored Research – Board Regulation 9.007
  ✓ Funding from federal agencies, state agencies, foundations, and private sources that enables the University to conduct specific research projects or to provide specific services or deliverables.

✓ Grants/Donations – Board Regulation 9.007
  ✓ Funding includes university and research foundations, state and local awards, and other various donations and grants.
  ✓ Transfers from university medical Faculty Practice Plans to support physicians compensation also included in this entity.

✓ Developmental Research Schools – Florida Statute 1002.32
  ✓ Laboratory schools fiscal activities are reported in the universities’ Developmental Research Trust Funds. Funding originates from the DOE Florida Education Finance Program.
SUS 2018-2019 Operating Budget
Auxiliary Enterprises

- Health/Medical Center Services $78,815,925 (5%)
- Food Service $56,516,935 (3%)
- Traffic/Parking $107,186,187 (6%)
- Student Health Services $109,856,674 (6%)
- Academic Dept Sales and Services $146,943,076 (8%)
- PO&M $159,711,783 (9%)
- Aux Administration $133,772,951 (8%)
- Continuing Education $288,148,189 (17%)
- Housing $256,604,480 (15%)
- Other Aux Expenses $399,827,991 (23%)

$1.7 Billion
USF System Auxiliary Enterprises Budget (In Millions)

- Continuing Education: $24.3 million (11%)
- Housing: $30.5 million (14%)
- Other Aux Expenses: $29.8 million (13%)
- Health/Medical Center Services: $16.5 million (7%)
- Food Service: $23.1 million (10%)
- Traffic/Parking: $15.0 million (7%)
- Student Health Services: $16.2 million (7%)
- Academic Dept Sales and Services: $43.4 million (20%)

Total: $222 Million
Auxiliary services are integral activities of a university that furnish to its faculty, staff and students goods and/or services that are necessary or desirable but not readily available elsewhere in terms of costs, quality, quantity, timeliness, convenience, or other similar considerations. These activities shall support the educational endeavor of the institution and enhance its functioning; therefore, they shall not detract or distract from this basic endeavor in any way, financially or otherwise.

The Auxiliary Enterprises Budget consists of university business operations that are self-supporting through user fees, payments and charges.

Each institution may determine whether its auxiliary services will be self-supporting on an individual or collective basis, except for athletics, which shall be a self-supporting entity.
Proceeds from Auxiliary Enterprise operations may be used for purposes deemed necessary by the institution’s administration. Examples of uses of Auxiliary funds include:

- **Debt service** for bonds issued for the construction of university parking garages and student dormitories (pledged revenues)
- **Construction** of new university facilities
- Administrative department support from Auxiliary operations **overhead assessments** (Human Resources, Purchasing, etc.)
- Campus **safety and infrastructure** improvements
- **Maintenance and repairs** of university academic and administrative buildings
- **Salaries and benefits**, compensated leave for Auxiliary Enterprise employees
- Subsidized costs for **student extrcurricular activities** (concerts, seminars, career fairs, homecoming events, etc.)
SUS 2018-2019 Operating Budget
Local Funds

- Student Financial Aid: $2,339,589,159 (78%)
- Board Approved Fees: $6,155,559 (<1%)
- Self-Insurance Programs: $31,334,027 (1%)
- Concession Funds: $4,678,394 (<1%)
- Technology Fee: $60,116,501 (2%)
- Student Activities: $129,477,465 (4%)
- Intercollegiate Athletics: $427,082,658 (14%)

Total: $3 Billion
USF System Local Funds Budget (In Millions)

Board Approved Fees, Concession, & Self-Insurance $10.3 2%
Technology Fee $12.3 2%
Student Activities $22.4 5%
Intercollegiate Athletics $44.2 9%
Student Financial Aid $400.0 82%

$ 483 Million
Local Funds – Regulation 9.007(d)
Operating Budgets

✓ **Student Financial Aid**
  ✓ Funding from the student financial aid fee
  ✓ Federal Pell Grants
  ✓ Florida Bright Futures
  ✓ Florida Student Assistance Grant
  ✓ Federal Work Study
  ✓ First Generation Scholarships

✓ **Intercollegiate Athletics Budget – Board Regulation 7.003**
  ✓ The Athletics Operating Budget supports the University’s student athletics program. Funding is generated from student athletics fees as well as ticket sales to athletics events, game guarantees, NCAA distributions, sponsorships and private support.
Local Funds (continued)

✓ Student Activities and Services – Board Regulation 7.003(4)(e)
  ✓ Funding from the activities & service (A&S) fee to support student government operations and student activities such as clubs and organizations.
  ✓ The student A&S fees shall be expended for lawful purposes to benefit the student body in general.

✓ Technology Fee – Board Regulation 7.003(5)
  ✓ The fee may be up to 5 percent of the tuition charged per credit hour. The revenue from this fee shall be used to resources for students and faculty. enhance instructional technology

✓ Student Financial Aid Fee – Board Regulation 7.003(17)
  ✓ This fee is collected for financial aid purposes in an amount not to exceed 5 percent of the tuition and out-of-state fee.
  ✓ Minimum of 75 percent mandated for need-based student aid.
Faculty Practice – Regulation 9.007

Related to the activities for the state universities’ medical schools and health centers. This budget must report the monetary level of clinical activity regarding the training of students, post-graduate health professionals, and medical faculty.

University Faculty Practice Plans have been established to facilitate the orderly collection, distribution, and regulation of fees generated by faculty members engaged in healthcare services to patients as an integral part of their academic activities and employment as university faculty.
Fixed Capital Outlay and Financing
SUS 2018-2019 Fixed Capital Outlay

$ 218 Million

- Capital Improvement Fee, $40,000,000
- University Lab Schools, $8,194,326
- PECO Renovations/Remodeling, $47,182,459
- PECO Projects, $122,600,800
USF System Fixed Capital Outlay
(In Millions)

- Capital Improvement Fee
  - $6.0
  - 31%
- PECO Projects
  - $7.0
  - 37%
- PECO Renovations/Remodeling
  - $6.1
  - 32%

$ 19 Million
Fixed Capital Outlay

• Public Education Capital Outlay (PECO) – *Funded by the Gross Receipts Tax*, which is a 2.5 percent levy on the gross receipts of electric, gas and telecommunications. This tax is devoted entirely to the PECO and Debt Service Trust fund and is the major state source of revenue dedicated to k-20 facilities. *Funds are used for renovation / remodeling, new construction and / or land acquisition.*

• Capital Improvement Trust Fund Fee (CITF) – *Funded by student fees and used for student related projects. This fee can be no more than 10 percent of tuition.* Board Regulation 7.003(16)
SUS Authorized Revenue Sources for Fixed Capital Outlay (FCO) Projects

State Appropriations for FCO

- Public Education Capital Outlay (PECO) Trust Fund is the primary funding source for university instruction and research space
- Secondary state sources include General Revenue, Lottery and the Capital Improvement Fee
- Project spending authorized in the General Appropriations Act or via special appropriation

BOG’s PECO methodology changing
SUS Authorized Revenue Sources for Fixed Capital Outlay (FCO) Projects

✓ Authorized University Revenues

✓ Student life, research, retail, and athletic facilities do not receive PECO. These facilities must generate their own revenues for both construction and operations.

✓ These may also be described as “Self-Supporting Facilities”

✓ Authorized self-supporting facility revenues include athletics, student housing, transportation/parking, student dining, student unions, retail, research related, health, etc.

✓ The use of tuition as a facility revenue source is specifically prohibited in S. 1010.62 F.S.
SUS Authorized Revenue Sources for Fixed Capital Outlay (FCO) Projects

✓ Authorized Non-State Revenues (S. 1013.74 F.S.)
  ✓ Universities may use Federal Grants, private grants, and gifts for fixed capital outlay projects IF the funds are given or granted specifically for the purpose of construction.
  ✓ Replacement of buildings from insurance proceeds.
  ✓ Florida Polytechnic University only is authorized to use reserves or carry forward balances for the construction of legislatively authorized projects.
Financing Mechanisms

Section 1010.62, F.S.

✓ **Authorizes financing using revenue**s derived from or received in relation to sales and services of auxiliary enterprises or component units of the university, including, but not limited to:

- **Housing, transportation, health care, research or research related activities, food service, retail sales, athletic activities**, or other similar services, other revenues attributable to the projects to be financed or refinanced, any other revenue approved by Legislature for facilities construction or for securing revenue bonds issued pursuant to s. 11(d), Art. VII of the State Constitution, or any other revenues permitted by law.
Financing Mechanisms

Section 1010.62, F.S.

✓ Bonds, loans, certificates of participation - all require Board of Governors approval and Division of Bond Finance review.

✓ Equipment financing does not require Board of Governors review; the equipment serves as the collateral securing the note.

✓ Mortgage financing does not require Board of Governors review; the building and land serves as collateral in securing the note. Mortgage financing is not allowed on State-Owned land.

Public Private Partnership (P3)

✓ Defined by Board Guidelines and subject to approval by the Board of Governors.

✓ Parallel review structure for Bonded Projects; includes Bond Finance review as well.

NEW

P3 Rules changed
Summary of Reg. / Guideline Changes

- Carryforward spending plan required to be approved by BOT by August, then BOG.
- PECO changes – scoring system and carryforward as primary capital funding (?)
- Unencumbered reserve moves from 5% to 7%
- P3 rules changed:
  - > 40 year life – additional review
  - No advance approval – full draft of lease required

Changes are pending SB190 becoming law.
Proposal:
Future Board of Trustees agenda items will contain explanation of funding source and attestation that the funding source is allowed by regulation.
Questions?
PERFORMANCE UPDATE

USF BOARD OF TRUSTEES

Dr. Judy Genshaft, June 6, 2019
STUDENT SUCCESS

Highlights

• USF received the 2019 ACE/Fidelity Investments Award for Institutional Transformation in recognition of USF’s commitment to student success and the resulting cultural change. (March 2019)

• USF’s campus-wide tiered approach to student mental health and well-being was highlighted in Education Dive. (April 2019)

• USF welcomed to campus delegations from Miami and UMBC, and are preparing to host Portland State in June, all of whom wanted to learn more about our student success model.

• USF is a finalist for the 2019 Seal of Excelencia for its demonstrated intentional impact in core areas of data, practice and leadership for Latino student success. (May 2019; winners will be announced June 20)

• USF’s Parent & Family Programs was featured for its practices in engaging parents and family members as students transition into and progress through college in The Chronicle of Higher Education. (May 2019)

• USF Vice President for Student Success Paul Dosal had two articles highlighting the use of predictive analytics and a case management approach to student success publish on higherlearningadvocates.org and ecampusnews.com. (May 2019)
FUNDRAISING

Total pledges/gifts received against prior year and plan:

<table>
<thead>
<tr>
<th>Year</th>
<th>Donors</th>
<th>Totaling</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>38,677</td>
<td>$88,017,012</td>
</tr>
<tr>
<td>2018</td>
<td>38,859</td>
<td>$69,417,676</td>
</tr>
</tbody>
</table>

Major gifts received (>100,000):

<table>
<thead>
<tr>
<th>Year</th>
<th>Donors</th>
<th>Totaling</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>75</td>
<td>$80,125,663</td>
</tr>
</tbody>
</table>

Endowment against prior year and plan:

<table>
<thead>
<tr>
<th>Year</th>
<th>Value as of March 31, 2019</th>
<th>Value as of June 30, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 YEAR PLAN</td>
<td>$483 million</td>
<td>$480 million</td>
</tr>
<tr>
<td>Goal for June 2019</td>
<td>$465 million</td>
<td></td>
</tr>
</tbody>
</table>
LEADERSHIP TALENT

Critical hires:

• Alastair Graham, PhD, Geography Department (Exeter University)
• Douglas Hughes, PhD, Marketing Department (Michigan State University)
• Tony Kong, PhD, Information System and Decision Sciences Department (University of Houston)
• Mark Taylor, PhD, Director and Professor, Lynn Pippenger School of Accountancy (Case Western Reserve University)
• Liwang Cui, PhD, Internal Medicine Department (The Pennsylvania State University)
• Ji Li, PhD, Surgery Department (University of Louisville)
• Gopal Thinakaran, PhD, Molecular Medicine Department (The University of Chicago)
• Lianchun Wang, MD, Molecular Pharmacology and Phycology Department (University of Georgia)
• Matthew Marshall, Director of the Marshall Student Center (University of West Florida)
• Jay Souza, Director of Campus Recreation (SUNY Stony Brook University)
NEXT 90-DAY STRATEGIC PLAN

• USF System consolidation
  • Integration of Curriculum
  • General Education
  • Tenure and Promotion
  • Faculty Governance
  • Strategic Plan
• Legislative Budget Request submission
• Enrollment Planning 2021
• Accountability Plan presentation to the FLBOG
INSTITUTIONAL HIGHLIGHTS

• USF Ranked among Peace Corps’ 2019 Top Volunteer-Producing colleges and universities (March 2019)

• USF officially inducted into Phi Beta Kappa with the new Eta of Florida chapter (April 2019)

• USF is ranked first in Florida and fifth nationally according to the inaugural Times Higher Education University Impact Rankings which measures a university’s sustainable impact (April 2019)

• USF ranked by an international ranking of leading world universities, Round University Rankings (RUR), as Top 50 of Public Institutions in the U.S. (April 2019)

• USF’s Judy Genshaft Honors College established (May 2019)
PERFORMANCE UPDATE

USF BOARD OF TRUSTEES

Dr. Martin Tadlock, June 6, 2019

St. Petersburg Campus

UNIVERSITY OF SOUTH FLORIDA
A PREEMINENT RESEARCH UNIVERSITY
STUDENT SUCCESS

Highlights

• Update on APR
• Implemented Optimized Scheduling
• Redesigned key “gatekeeper” courses
• Math SMART Lab to open in fall 2019
• Expansion of COMPASS to second-year students
• PATHe partnership implemented spring 2019
• Start Strong, add-on to Windward Success Camp to launch in summer 2019
• TRIO–SSS-inspired program starts summer 2019
STUDENT SUCCESS

Highlights

Grants Offered for Financial Assistance:

- Finish in Four (FIF) Completion Grants
- USFSP Promise Grant
- USFSP Graduation Success Grant
**FUNDRAISING**

**Total pledges/gifts received against prior year and plan:**

Goal: $3,000,000

Actual: $1,324,488.99 (as of 05-11-19)

Gift Agreements Executed:
$3,000,000 (Kate Tiedemann & Ellen Cotton) & $104,000 (Lastinger Family Foundation)

Adjusted Total: $4,428,488.99

**Major gifts received (>100,000):**

Actual: 5

Adjusted with Executed Gift Agreements: 7

Total Dollars: $1,043,551

Total Dollars Adjusted with Executed Gift Agreements: $4,147,551

**Endowment against prior year and plan:**

FY2018:
$18,857,817.23 (Principal Value)
$25,170,489.47 (Market Value)

FY2019 as of 03-31-2019:
$19,006,616.73 (Principal Value)
$24,956,931.09 (Market Value)
Critical hires:

Searches Underway for:

- RVCAA/Vice Provost
- Associate Director of Institutional Research
- Director of Housing and Residence Life

Hired:

- Interim Associate Dean, College of Education – Dr. Brenda L. Walker
- Registrar – Lynn Lynch
- Director of Academic Advising – Kilpatry Cuesta
Allocate the $3.5 million appropriated by the Florida Legislature to the priorities in the Master Academic Plan to support continued efforts to boost student success and expand research capabilities.

Promoting new programs coming to our campus: Computational and Applied Mathematics, Sustainability Studies and Nursing.

Building a timeline for the strategic hires necessary to continue the transition to a R1 institution.

Upgrading facilities, including renovations to Davis Hall, Nelson Poynter Memorial Library and Harbor Hall/Graphic Design area. Also completing build-out of Port Terminal Building leased by the city of St. Petersburg for our nursing skills lab.
• Welcoming an incoming FTIC class with the highest academic profile in USF St. Petersburg’s history while strengthening partnerships with St. Petersburg College and others to promote continued diversity and access.

• Developing new programming targeted toward residential students in anticipation of expanding the amount of available on-campus housing by nearly 70 percent with the opening of the new residence hall and dining facility in July 2020.

• Protecting the physical safety of students through the implementation of a new campus emergency plan to improve university response in the event of a hurricane or other disaster.
INSTITUTIONAL HIGHLIGHTS

• Groundbreaking ceremony for new 375-bed residence hall and full-service dining facility
• Coquina Hall renamed in honor of Bill Heller, longtime campus and civic leader and USFSP donor
• Created partnership with Innovation District to launch Innovation Scholars program
  ○ Deadline for student applications is July 30
• Chancellor’s Leadership Council students traveled to China for 10 days in May
• La Florida: Total of $540K gifts received this year, including $20k from the City of St. Augustine to help fund a digital reconstruction of the historic Tolomato Cemetery in St. Augustine
PERFORMANCE UPDATE

USF BOARD OF TRUSTEES

Dr. Karen A. Holbrook, June 6, 2019
STUDENT SUCCESS

Highlights

• Increasing student profile
  Summer 2019:  3.74 GPA   1168 SAT   24 ACT
  Fall 2019:    4.11 GPA   1271 SAT   28 ACT

• 15% increase in FTE for summer

• Robust Career Services engagement with scheduled outreach, activities and curriculum integration begins prior to orientation, spans a student’s academic career and available post-graduation. Regularly incorporating best practices and new technology.

• First Destination survey supports data that most students working full-time remain in the Sarasota-Manatee area.

• Full-time wellness counseling now available at USFSM; 74% increase in utilization since January 2019.

• USFSM Veteran Services will establish new scholarships for student veterans and veteran families due to a generous donation.
## FUNDRAISING

**Total pledges/gifts received against prior year and plan:**

- **2017-18**
  - Goal: $3,000,000
  - Secured: $854,136
- **2018-19**
  - Goal: $2,000,000
  - Secured: $1,048,593

**Number of gifts received:**
- 2017-2018: 301
- 2018-2019: 484

**Major gifts received (>100,000):**
- $400,000 estate gift
- $215,000 outright gift

**Endowment against prior year and plan:**

- **Principal value**
  - 2017-18: $8,433,727
  - 2018-19: $8,478,758
  - 2019-20: $8,920,266
LEADERSHIP TALENT

Critical hires:

- Dr. Steven Miller, Associate Professor, Risk Management and Insurance
- Dr. Trishna Mistry, Assistant Professor, Hospitality and Tourism Leadership
- Teeranai Ovathansin, Director of Student Services

Current Searches:

- Dean, College of Business
- Diversity, Equity and Inclusion Officer
- Instructor, Biology (2)
- *Due to the restoration of recurring funds, plans are underway for the use of those funds in strategic hires.*
• Dual Enrollment Expansion
  • All Manatee County High Schools and 5 Sarasota County High Schools participating in Fall 2019
• Manatee Technical College collaboration regarding certificate programs
• Institute for Public Policy and Leadership, in partnership with the Greater Sarasota Chamber of Commerce/CareerEdge Funders Collaborative, to host the Suncoast Workforce Solutions Summit
• Continued progress with on campus housing process
• Establish a Women in STEM Leadership Council for ISTC purposes
• Virtual campus tour in partnership with Innovative Education
• Innovation Hub/Robotics Lab established
• Application for SALUTE, National Veterans Honor Society Chapter at USFSM
INSTITUTIONAL HIGHLIGHTS

• Named CareerSource Suncoast Education Partner of the Year, recognizing outstanding commitment to build a stronger community and workforce through academic programs and experiential learning
• Surpassed the USF System Faculty Staff Campaign participation Goal at 114%
• Successful finish to the year-long Student Pilot Mentoring Program
• Financial Markets and the Economy: Financial Literacy Day III
• Spring Commencement - 297 graduates; 277 undergraduate; 20 graduate
• Student Showcase for Projects, Research and Innovation
• Bloomberg Certified Student Luncheon and Career Fair
• Established and distributed an Advancement and Alumni e-newsletter
• Doubled the number of attendees and dollars secured at the 9th annual, HospitaBull Evening at the Ritz-Carlton, Sarasota