1 OVERVIEW

The College of Engineering welcomed Dean Robert H. Bishop to campus. It was a very busy year with the normal and expected changes associated with a leadership change. In short, the transition was smooth. The existing leadership team in the college was extremely helpful. Having a dean with prior valuable deanship experience was also beneficial.

Most importantly, the College received notification in August from ABET that all program accreditations have been renewed for the maximum of six years, with no weaknesses or deficiencies found in any of the programs. This outstanding outcome confirms that our programs meet the quality standards established by the profession of engineering.

This year the College celebrated its 50th anniversary. During the year, we strengthened our relationships with donors and alumni through targeted events. The fall semester began with a student welcome back event on Monday, September 8, the actual date in 1964 that the college started classes. The annual Heart of Gold scholarship event and alumni homecoming reception also featured a 50th anniversary theme that drew more alumni to the campus. The College’s inaugural Engineering Excellence Awards Dinner—which is planned as an annual event moving forward—recognizes outstanding alumni through their contributions to the engineering profession as well as their commitment to the giving back to the college. It will be held on Saturday, April 18, 2015, at the University Club. It is a sold-out event. We are also hosting an alumni reception for the classes of the 1960’s and 1970’s on Friday, April 17, the day before the Engineering Excellence Awards Dinner. The alumni reception will bring us closer to the core group of students who were the first to attend and graduate from the college. As we move forward, it is our intention to create a festive Alumni Weekend. Next year we will add Saturday activities on campus, especially focusing on the departmental faculty and students.

The most recent U.S. News & World Report ranking of engineering graduate programs has the college ranked above 100 for the first time. The trend line for USF is positive, as illustrated in Figure 1. While we are pleased with the USF engineering graduate ranking trend, we aim to achieve a much higher overall ranking. Our strategic investment strategy is geared to lead the college toward even greater recognition.

A few highlights from Research & Innovation:

- COE grant requests—$146M up 26% from last year
- COE grant funding—$36.2M up 62% over 5 years
- USF leads the state with NSF CAREER awards—2 last year and 3 this year from COE
- Record number of patents—113 with 23% from COE
- Historic number of licenses—91 with 25% from COE
- USF start-up companies—5 out of 11 from COE
- USF leads the state in active NSF I-Corps teams and third nationally—5 of the 6 teams from COE
From the Research & Innovation data, it is evident that USF is doing quite well, and that the COE is a major contributor. The three faculty members that received NSF CAREER Awards are Dr. Hui Yang of Industrial and Management Systems Engineering, Dr. Qiong Zhang of Civil and Environmental Engineering, and Dr. Rebecca Cai of Mechanical Engineering.

As we consider our next steps forward, we organize our thoughts around people, programs, and places. First and foremost, our success depends on the people in our organization, including the students, staff, and faculty. We must recruit, support, and retain world-class faculty and staff. To this end, we have had a very active recruiting season with 42 on-campus interviews leading to 10 offers for faculty and instructors. At the time of this report, we have seven new faculty and three new instructors joining us this coming fall. These seven faculty members have a combined history of $19 million of externally funded research and 252 papers published. Our faculty have been very successful internationally. For example, Dr. Ravi Sankar, Professor of Electrical Engineering, received a Fulbright Faculty Award and will spend the 2015-16 year on cooperative research with the Universidade de Sao Paulo (USP) at Sao Carlos School of Engineering, the largest and highest ranked university in Brazil.

We must also engage our alumni and friends. We had a very active year with our alumni engagement. We hosted over 30 events, including football games, hockey games, receptions, fund-raising events, and much more. Being more visible in the community was a primary goal for us this year. The response to our efforts has been overwhelmingly positive and encouraging.
Our focus always remains on our students and their success. We must attract the best students to the college and keep them engaged to program completion. In this regard, our performance is good, but can be much better. Our student to faculty ratio is too high, and climbing, as illustrated in Figure 2. In Figure 3, we note that the student numbers have increased about 37% since 2010-11 without an associated increase in faculty. This is a factor in student success—our strategic investment plan seeks to find necessary and realistic pathways to reducing the student to faculty ratio.

![Figure 2 Student to Faculty Ratio](image1.png)

![Figure 3 Student Enrollment](image2.png)
2 USF Goal 1: USF will produce well-educated, highly skilled global citizens through its continuing commitment to student success

2.1 ABET Accreditation
The College received notification in August 2014 from ABET that program accreditation has been renewed for the maximum of six years, with no weaknesses or deficiencies found in any of the programs. Successful ABET accreditation provides our students and prospective employers assurance that our programs meet the same rigorous criteria that other similar engineering and computer science programs across the country and the world must meet. It is a clear indication of the dedication of our faculty and staff to provide our students with a high quality education.

2.2 Engineering Student Services
The first, second, and third year retention rates for undergraduate engineering students has continued to increase. Increased advising contacts have been shown to increase retention among students. Advising contacts continue to increase each year for the pre-engineering students, as illustrated in Figure 4. During the fall 2014 semester alone, there were over 5,440 advising contacts of pre-engineering students compared to fall 2010 of just 2,229, an increase of over 244%. Expansion of the learning teams continue as they are showing higher retention rates for students participating in the teams.

![Figure 4 Total Advising Contacts](image-url)
The College of Engineering continues to increase its retention as advising contacts increase with the lower level students. Additional programs such as learning communities and a required first year seminar course for all engineering students has also contributed to the increasing retention numbers. Figures 5-8 illustrate the retention rates by year. In 2013, our retention rate from 1st to 2nd year was 78%. This is a significant improvement from the low of 67% in 2010, but still below our goal.

Figure 5 Total Advising Contacts Percentage of students who stayed in the College of Engineering for one year

Figure 6 Percentage of students who stayed in the College of Engineering for two years
Figure 7 Percentage of students who stayed in the College of Engineering for three years.

Figure 8 Percentage of students who stayed in the College of Engineering for four years.
Students who participate in the College of Engineering learning communities continue to show significantly higher levels of retention compared to students who choose not to be in a learning community. In Figure 9, the percentage of students who stayed in the College of Engineering for one year is shown. The comparison between students in the Engineering Living Learning Community versus students not in any type of learning community shows a stark difference. Student in the ELLC are retained at a much higher rate.

![Figure 9 First Year Retention Rate](image)

In Figure 10, the percentage of students who stayed in the College of Engineering for two full years is illustrated. The data shows a significant difference in retention between students in the Engineering Living Learning Community versus students not in any type of learning community.

![Figure 10 Second Year Retention Rate](image)
In Figure 11, the percentage of students who stayed in the College of Engineering for three full years is shown. Again, the data shows a significant difference between students in the Engineering Living Learning Community versus students not in any type of learning community.

![Graph showing 3rd Year Retention Rate](image)

Figure 11 Third Year Retention Rate

### 2.3 Student Awards and Fellowships

A sampling of the many student awards includes the following:

- Andrea Sanchez, a recent PhD graduate in the Department of Civil and Environmental Engineering, is the recipient of a prestigious 2014 STAR Award from the Society of Hispanic Professional Engineers (SHPE). Andrea was selected as the Student Role Model in the Graduate category.

- Colleen Naughton, a doctoral candidate in the Department of Civil and Environmental Engineering, has been awarded an American Dissertation fellowship in the amount of $20,000 for the 2014-2015 academic year from the American Association of University Women (AAUW).

- Michael Esteban, a fourth-year student in the Department of Civil and Environmental Engineering, has been awarded a summer internship position in the 2014 Re-Inventing the Nation’s Urban Water Infrastructure REU program at the Colorado School of Mines.

- Maureen Kinyua, a doctoral candidate in the Department of Civil and Environmental Engineering, has been awarded a Signature Research Fellowship from the USF Graduate School.
• Fillipe Souza won the best student paper award in the Pattern Recognition and Machine Learning track at the 2014 International Conference on Pattern Recognition (ICPR).

• Kenneth Ramclam has been awarded the prestigious Richard A. Newton Young Student Fellow award to attend the 51st Design Automation Conference (DAC). Kenneth received his B.S in Computer Engineering and is working towards his MS degree.

• Muhaimen Shamsi, an international student from Bangladesh and a junior majoring in Computer Science and Engineering, is one of only 300 students selected by the German Academic Exchange Service (DAAD) to participate in the prestigious Research Internship in Science and Engineering (RISE) Program.

• Maria Cordoba Erazo, a doctoral student in the Department of Electrical Engineering, was awarded the 2014 Automatic RF Techniques Group (ARFTG) Roger Pollard Memorial Student Fellowship in Microwave Measurement. She was also awarded the Microwave Theory and Techniques Society (MTT-S) Graduate Fellowship for 2015.

• Fabiola Cespedes Araujo, a doctoral candidate in electrical engineering, has received the prestigious Schlumberger Foundation’s 2015-2016 Faculty for the Future Fellowship program.

• Gang Liu, was awarded first place in the Best Student Paper Award in Computer and Information Systems at the IIE Annual Conference 2014 in Montreal.

• INFORMS Student Chapter received the Summa Cum Laude Award for 2014. Only one of two awarded nationwide each year. The USF chapter also won in 2013, 2012, 2011.

• Institute of Industrial Engineering Student Chapter received the Gold Ward for 2014. The chapter also won in 2013, 2012.

• Arsenii Zhdanov, doctoral student in biomedical engineering received the Presidential Doctoral Fellowship awarded by USF.

• Nada Elsayed, doctoral student in chemical engineering received a USF Graduate Fellowship for the 2014-15 academic year.

• Nathan Roberts, chemical engineering undergraduate, received the Excellence in Undergraduate Research Award from USF's Office of Undergraduate Research.

• Ileana Wald, a doctoral student in environmental engineering, and Brian Wright, a doctoral student in mechanical engineering, received 2015 NSF Graduate Research Fellowships. Cheng Wie Lin, an MS student in computer engineering, received honorable mention.

• Katie Hart, senior in mechanical engineering, received the Student Engineer of the Year from the American Society of Mechanical Engineers.

• Weize Yu, a new doctoral student in the Department of Electrical Engineering, was awarded a prestigious USF Presidential Fellowship beginning Fall 2014.

• Juan Lopez Marcano, a student in the BS/MS Electrical Engineering program was awarded a MS fellowship from the GEM Consortium by Intel.

• Olukemi Akintewe, a doctoral candidate in the Department of Chemical and Biomedical Engineering, was awarded an NIH funded postdoctoral fellowship with the
Multidisciplinary Training Program in Cardiovascular Research at Boston University School of Medicine.

Six College of Engineering doctoral students were awarded McKnight Doctoral Dissertation Fellowships for the 2014-2015 academic year, the largest number of these awards provided to any College in the statewide competition by the Florida Education Fund. The students selected were: Edikan Archibong (PhD candidate, Chemical & Biomedical Engineering), Vinicio Carias (Chemical & Biomedical Engineering), Innocent Udom (Ph.D. candidate, Chemical & Biomedical Engineering), Mutasim Elsheikh (PhD candidate, Mechanical Engineering), and Mark Santana (PhD candidate, Civil &Environmental Engineering). Each recipient received a one-year stipend in the amount of $12,000, tuition waivers, and professional development support.

2.4 Student Conferences and Competitions
Examples of the student conferences and competitions include the following:

- **The Embedded Security Challenge** Two teams of USF College of Engineering students received first and third place awards respectively in the Embedded Security Challenge team competition held at New York Polytechnic University in Fall 2014.

- **USF Student Chapter of American Institute of Chemical Engineers (AIChe)** The University of South Florida student chapter of the American Institute of Chemical Engineers (AICHE) will host 2015 AIChe Southern Regional Conference, from April 10-11, 2015 in Clearwater Beach, Florida.

- **2014 Water Environment Federation’s Annual Technical Exhibition and Conference** This past September, a team of seven engineering seniors won first place honors in the national wastewater design competition at the Water Environment Federation’s Annual Technical Exhibition and Conference (WEFTEC) held in New Orleans, LA on September 28, 2014.

- **2014 PCI Engineering Student Design Award/The Big Beam Competition** Two teams of civil engineering students participated in the Precast/Prestressed Concrete Institute (PCI)’s Engineering Student Design Award, also known as the “The Big Beam Competition”. First-place winners from each of the six PCI zones, along with the international entries, considered as zone 7, compete for the overall championship.

2.5 Faculty Awards
The faculty received many awards this year, among which we have the following:

- Ravi Sankar, professor in Electrical Engineering, received a 2015 Fulbright Scholar Faculty Award to Brazil.

- Sudeep Sarkar, professor in Computer Science and Engineering, was named 2014 AAAS Fellow.
• Anna Pyayt, assistant professor in Chemical and Biomedical Engineering, was a finalist in the global Nokia Sensing XCHALLENGE (2014), competing for the main prize.
• Yogi Goswami, professor in Chemical and Biomedical Engineering and co-director of the Clean Energy Research Center, was named Distinguished Professor by the University of South Florida Institute for Advanced Discovery and Innovation. He was also named a 2014 AAAS Fellow.
• Jeff Cunningham, associate professor in Civil and Environmental Engineering was named a 2014 Outstanding Reviewer by the Association of Civil Engineers.
• Jim Mihelcic, professor in Civil and Environmental Engineering received the 2014 USF Faculty Outstanding Research Achievement Award. He also was appointed to the Samuel L. and Julia M. Flom Endowed Chair.
• Gray Mullins, professor in Civil and Environmental Engineering received the 2014 Ben C. Gerwick Award for Innovations in Design and Construction of Marine Materials.
• Rangachar Kasturi, professor in Computer Science and Engineering received the 2015 Richard E. Merwin Award for Distinguished Service from the IEEE Computer Society.
• Ralph Fehr, instructor in Electrical Engineering, received the 2014 Outstanding Engineer Award, IEEE Power and Energy Society, FL West Coast Chapter.

3 USF GOAL #2: USF will generate new knowledge and solve problems through high-quality research and innovation to change lives, improve health, and foster positive societal change

3.1 NSF CAREER Awards
Three engineering faculty members received National Science Foundation NSF CAREER Awards in 2015:

• Hui Yang, assistant professor in Industrial and Management Systems Engineering, received $500,000 over the next five years from the Manufacturing Enterprise Systems Program
• Qiong Zhang, assistant professor in Civil and Environmental Engineering, received $501,000 from the Environmental Stability Program.
• Wenjun Cai, assistant professor in Mechanical Engineering, received $534,960 from the Metal & Metallic Nanostructures Program.

3.2 Significant Research Grants
During the year engineering faculty and researchers were able to obtain or renew several significant and interesting research grants, including:
• Pei-Sung Lin, researcher in the Center for Urban Transportation Research (CUTR), received $9.2M the renewal of the grant titled “Florida's Bicycle/Pedestrian Focused Initiative Communication and High Visibility Enforcement Implementation.”
• Rajiv Dubey, professor and chair in Mechanical Engineering, received $1.5M on the renewal of the grant titled “Rehabilitation Engineering and Technology Program.”
• Joel Volinsky, researcher in the Center for Urban Transportation Research (CUTR), received $1.4M the first year of the grant titled “NCTR Tier 1 Livability.”
• Yogi Goswami, professor in Chemical & Biomedical Engineering, received $1.2 M for the grant titled “Development of Low Cost Thermal Energy Storage System.”

The college’s faculty and researchers obtained a total of 269 grants during the year.

3.3 Research Expenditures Six-Year Trend
Without a doubt the last decade has seen the engineering faculty and researchers perform very well. As illustrated in Figure 12, from 2009 to 2014 the total research expenditures of the college increased almost 30%, in what has been a very challenging period in competing for contracts and grants.

![Figure 12 Total Research Expenditures](image)

Also faculty and researchers have maintained the pace in the submission of research proposals and the value of the proposals submitted, as shown in Figures 13 and 14. The research funding by department is illustrated in Table 1. Note the key role that CUTR plays in our research enterprise. Furthermore, our faculty keep sustaining the translational efforts as shown by the number of patents obtained over the last five years, as listed in Table 2.
Figure 13 Total Number of Proposals Submitted as PI (Note: 2015 is a partial year).

Figure 14 Funding Requests (Note: 2015 is a partial year).
<table>
<thead>
<tr>
<th>Department Description</th>
<th>Rank</th>
<th>Name</th>
<th>Fiscal Year Posted</th>
</tr>
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<td>Industrial &amp; Management Sys Engineering</td>
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<td>$ 384,176</td>
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<td>Civil &amp; Environmental Engineering</td>
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<td>Mechanical Engineering</td>
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<td></td>
<td>$ 3,217,319</td>
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<tr>
<td>Computer Science &amp; Engineering</td>
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<td></td>
<td>$ 1,709,738</td>
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<tr>
<td>Center for Urban Transportation Research</td>
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<td></td>
<td>$20,999,394</td>
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</table>

**Grand Total** $36,383,287

Table 1 Research Awards for Fiscal Year 2014

Table 2 COE Patents Awarded

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<th>Total #</th>
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<td>2012</td>
<td>36</td>
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<tr>
<td>2013</td>
<td>29</td>
</tr>
<tr>
<td>2014</td>
<td>14</td>
</tr>
</tbody>
</table>
4 USF GOAL #3: USF will provide a first-class, higher educational institution that drives the economic engine of Tampa Bay.

4.1 Real World Experience for Engineering Students

4.1.1 BEST Program
The Bulls Engineering Success Training (BEST) program provides selected undergraduate students in the College of Engineering an interdisciplinary industry-based capstone design experience. A BEST team of six students will complete an industry-contributed project in two semesters and will earn 6 credit hours. The BEST program will prepare students for their first job in industry and enable them to hit the ground running. All BEST students are supervised by a College of Engineering faculty member and mentored by an industry partner. Being part of the BEST program is a great way for companies to help prepare the next generation of practicing engineers. Participating companies benefit directly from having a project completed and gain recruiting advantages in hiring new engineers. There are currently seven BEST programs with the following companies:

1. CAE
2. Harris
3. Hillsborough County Public Utilities (Project #1)
4. Hillsborough County Public Utilities (Project #2)
5. Raymond James
6. TECO
7. Syniverse

This represents 7 projects in 2014-2015; up from 4 projects in 2013-2014.

4.1.2 Ericsson Internship Program
The Department of Computer Science and Engineering is the recipient of a $25,000 donation from Ericsson to support a paid on-campus internship program for its undergraduate program. Six undergraduate students are working 10 to 20 hours per week to develop a graphical topology generator for a virtualized network. Five of these students will be continuing their internship at Ericsson's Silicon Valley location in the summer of 2015. This on-campus internship program brings real world experience to our students and an opportunity for top-tier companies to learn more about our USF students for possible employment upon graduation.

4.1.3 Mini Circuits Design for X Laboratory
In the past year, we have fully equipped the Mini Circuits Design for X Laboratory through a grant from Mini Circuits and the Harvey and Gloria Kaylie Foundation. The lab provides maker space a collaborative, fun environment for undergraduate students at USF to safely pursue meaningful multidisciplinary engineering projects that expand their creative design and project
management skills. The project teams are made up of engineering students, with the opportunity to collaborate with non-engineering students, under the guidance of supportive faculty. Through these projects, students gain experience with teamwork, industry design and safety procedures.

4.2 Global Engagement
The college currently has agreements with many overseas universities to provide our students with a global education and perspective as well as reciprocal agreements with universities abroad (i.e., Universidad Del Norte, Barranquilla, Colombia) for their students complete their engineering education here. Other notable agreements include Universidad Politecnica de Valencia in Spain and the recent meeting with the Republic of Georgia to establish an educational agreement.

4.3 Community Outreach
Our college is very active in the local community. Key examples include:

- **USF National Society of Black Engineers (NSBE)** - Chapter members provided weekly on campus tutoring for underrepresented and economically K-12 students in the USF Urban Scholars Outreach Program.

- **Tampa Middleton High School** - Professor Kingsley Reeves (Industrial and Management Systems Engineering) teaches two on-campus course, "Probability and Statistics" for Engineers in the Fall semester and "Engineering Economics" in the Spring semester, for students enrolled at Middleton Magnet High School STEM program.

- **Great American Teach-In (November 2014)** - Students and faculty visited local K-12 schools to provide personal testimonials and hands-on STEM demonstrations. A primary focus of our College is to partner with schools that have a significant enrollment of minority students and inspire to pursue STEM careers.

- **NSF Research Experiences for Teachers - Water Awareness Research and Education -WARE**. This initiative is led by Professors Maya Trotz and Sarina Ergas, in the Department of Civil and Environmental Engineering. Each summer, the project projects five-week summer research experiences for Hillsborough County School District and pre-service teachers. A primary goal of the program is to help teachers at schools with a significant enrollment of URM students integrate new STEM content and methods related to their USF experience into their classroom practice.

- **USF BULLS-EYE (Engineering Youth Experience) Mentoring Program**. USF College of Engineering received a grant from the Motorola Foundation to partner with Hillsborough County Public Schools (HCPS) to establish a STEM mentoring program for 48 rising fifth and sixth graders transitioning into an ongoing STEM pipeline at Bartels Middle School (31% - Hispanic/Latino; 23% - African-American/Black). Led by PI/PD Jonathan Gaines in the Department of Mechanical Engineering this program is employing 12 black or Hispanic engineering student mentors as near peer mentors and a curriculum targeted at underrepresented youth in Tampa, Florida.
• **NSF REU Site: An REU Site on Ubiquitous Sensing** in Computer Science and Engineering was awarded to Miguel Labrador and Yu Sun in the Department of Computer Science. The goal of the three-year grant is to recruit and train undergraduates across the nation in such topics as mobile sensing networks, location-based services, participatory sensing and human-centric applications. A primary focus of the grant will be to use proven strategies from 3 prior REU awards to recruit Hispanic students from a group of institutions in Puerto Rico and Florida as well as African-American students from partner institutions.

• **REU Site: Tampa Interdisciplinary Environmental Research**: The goal of this continuing three-year renewal grant is to provide undergraduates in environmental related fields with cutting edge research experiences. This program has been successful in recruiting minority and female undergraduates from throughout the continental US, Latin American, and the Caribbean (Puerto Rico, Virgin Islands, etc.).

### 4.4 Producing STEM Graduates

The total degrees awarded over the last nine years both in both the engineering undergraduate and graduate program are shown in Figures 15 and 16. The number of bachelor’s degree awarded is rising in correlation with rising enrollment.

![Figure 15 Nine-Year Trend of Bachelor’s Degrees Awarded](image_url)
Figure 16 Nine-Year Trend of Graduate Degrees Awarded
5 USF Goal #4 USF will ensure sound financial management to establish a strong and sustainable economic base in support of USF’s continued academic advancement.

Fundraising by the college is used to supplement its programs to enrich the academic environment. Our five-year funding history is presented in Table 3. We consider three types of gifts: Endowment, Operational (without in-kind), and In-kind. All three types of gifts are important to the college. We have done particularly well with the Keysight in-kind software gift.

Table 3 Five Year History of Gifts (Note: 2015 results are through April 8, 2015)

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015*</th>
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<td>Endowment</td>
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<td>588,520</td>
<td>44,512</td>
<td>583,356</td>
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<td>Operational w/o In Kind</td>
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<td>427,029</td>
<td>629,107</td>
<td>384,766</td>
<td>111,453</td>
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<tr>
<td>Total</td>
<td>593,145</td>
<td>1,015,549</td>
<td>673,619</td>
<td>968,122</td>
<td>537,781</td>
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<tr>
<td>In-Kind</td>
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<td>Keysight</td>
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<td>25,995,701</td>
<td>26,544,958</td>
<td>69,050,567</td>
<td>42,282,406</td>
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<td>Keysight</td>
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<td>Sciperio</td>
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<td>Chomalloy</td>
<td>12,800</td>
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<tr>
<td>In Kind total</td>
<td>39,006,351</td>
<td>26,138,747</td>
<td>26,989,720</td>
<td>69,050,567</td>
<td>42,282,406</td>
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</table>

Keysight is a long-time donor who has supported the College since 2002. With total giving to the College of Engineering of $203,116,005, Keysight is the largest in-kind donor in the University’s history. Keysight’s record-setting gift to the USF College of Engineering in software is positioning USF among the top schools in the nation. Its software provides the means to speed engineers through the process of turning ideas into schematics and products.

Our alumni engagement was very active. A partial list of activities for Fiscal Year 2014/15 attended by the Dean or Development Staff:

- August 7 – Florida Engineering Reception, Marco Island
- August 11 – Welcome Reception for Dean Bishop
- August 25 – hosted the American Society of Civil Engineers Board Meeting at the College and had Civil Faculty attend meeting.
• August 30 – hosted the Society of American Military Engineers representatives at USF Football
• September 3 – EAS (Engineering Alumni Society) Bulls Session at Courtside Grille, Pinellas
• September 18 – Heart of Gold Donor Reception
• September 19 – Hosted USF Engineering Suite at UCONN Game
• October 10 – Homecoming - hosted Alumni open house prior to parade at the College. Engineering Alumni Society had float in the parade.
• October 11 – hosted East Carolina Game Football Suite
• October 15 – Corporate Ambassadors meeting at Alumni Center with Dean Bishop
• October 17 – hosted table at WLP event
• October 28 – Dean’s Advisory Board meeting held
• November 12 – invited high potential donors to participate in the Engineering Leadership Café sessions
• November 14 – Chemical Advisory Board members attended USF basketball game and dinner
• December 13 – had alumni Bill Bracken speak at Induction Ceremony
• January 5 – invited companies to participate in the Welcome Back BBQ
• January 17 – representatives from the College of Engineering attended the Bracken Engineering Awards Dinner
• January 29 – held Corporate Ambassador Meeting at Alumni Center
• January 31- hosted Engineering Suite at the Lightning Game
• February 4 – attended Hillsborough County Education Foundation STEM Fair Breakfast
• February 5 – EAS held Bull Session at LeRoy Selmons’ in Tampa
• February 27 – EAS and Dean attended E-week Banquet
• March 6 – hosted Coffee and Conversation meeting with USF Development staff at the College
• March 20 – EAS Bullarney Event
• March 21st – Hosted Engineering Suite at the Lightning Game
• April 1 - invited high potential donors to participate in the Engineering Leadership Café sessions
• April 1 – Ft. Myers dinner and donor visits
• April 9th – EAS to host donors for Bullarney at Lightning Suite

A few highlights of upcoming events:

• April 17 – reception for the 60’s and 70’ classes
• April 18 – 50th anniversary celebration and Awards Dinner
• May 3rd – San Jose reception and visits
• July 30 – Florida Engineering Society Reception in Ft. Lauderdale
## METRICS

### USN&WR Best Engineering Schools Rankings Ranking Metrics for University of South Florida

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<thead>
<tr>
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<td>DOWN 5</td>
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<td>Public Rank</td>
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<td>73</td>
<td>DOWN 4</td>
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<td>20</td>
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<td>Total graduate engineering enrollment</td>
<td>822</td>
<td>865</td>
<td>UP 43</td>
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<tr>
<td>Research expenditures per faculty member</td>
<td>$269,790</td>
<td>$285,766</td>
<td>UP $15,976</td>
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<td>Engineering school research expenditures</td>
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<td>$30,577,000</td>
<td>UP $2,249,034</td>
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<td>Average quantitative GRE score of new entrants in both master's and doctoral programs</td>
<td>739 (old) 730 (old)</td>
<td>156 (new) 158 (new)</td>
<td>DOWN 9 UP 2</td>
</tr>
<tr>
<td>Overall acceptance rate</td>
<td>47.60%</td>
<td>50.3%</td>
<td>UP 2.7%</td>
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<tr>
<td>Faculty membership in National Academy of Engineering</td>
<td>.93 %</td>
<td>.90 %</td>
<td>DOWN 0.03%</td>
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<tr>
<td>Peer assessment score (5.0=highest)</td>
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<td>Recruiter assessment score (5.0=highest)</td>
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<td>2.5</td>
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<td>Ph.D. students/faculty</td>
<td>3.1</td>
<td>3.0</td>
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<td>Ph.D.'s granted</td>
<td>53</td>
<td>49</td>
<td>DOWN 4</td>
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<tr>
<td>Fall FT TT Faculty</td>
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<td>110</td>
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<td>Fall FT Master's Students</td>
<td>280</td>
<td>327</td>
<td>UP 47</td>
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<td>Master's students/faculty</td>
<td>2.6</td>
<td>2.97</td>
<td>UP .37</td>
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<tr>
<td>Tuition</td>
<td>In-state, full-time: $10,410 per year Out-of-state, full-time: $20,600 per year</td>
<td>In-state, full-time: $10,428 per year Out-of-state, full-time: $21,126 per year</td>
<td>In-state, full-time: UP $18 per year Out-of-state, full-time: UP $526 per year</td>
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*Source: U.S. News & World Report 2015 Rankings Engineering Graduate Programs*
### 2015 Rankings of Florida Universities with Graduate Engineering Programs

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</tr>
</tbody>
</table>

**Total Ranks** 90 137 138 144 143 140 140

**Total Schools Ranked** 95 143 151 150 147 145 147

**Total Schools** 198 198 198 198 199 211 215

*Source: U.S. News & World Report 2016 Rankings*

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<table>
<thead>
<tr>
<th>Program</th>
<th>USF Rankings*</th>
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<td>Engineering - Overall</td>
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<tr>
<td>Engineering - Biomedical Engineering / Bioengineering</td>
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<td>Engineering - Chemical</td>
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<td>Engineering - Computer Engineering</td>
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<td>Engineering - Industrial / Manufacturing</td>
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<td>Engineering - Mechanical</td>
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<td>Sciences - Computer Science</td>
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<tr>
<td>Information Technology</td>
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</table>
AAU Public University Performance Comparison *(Source 2014 ASEE Survey)*

**Doctoral Degrees per Tenure Track Faculty**

![Graph showing Doctoral Degrees per Tenure Track Faculty over time](chart1)

**Master’s Degrees per Tenure Track Faculty**

![Graph showing Master’s Degrees per Tenure Track Faculty over time](chart2)
Doctoral Enrollment per Tenure Track Faculty

Master's Enrollment per Tenure Track Faculty
Research Expenditures per Tenure Track Faculty

- Maximum
- 75th Percentile
- Median