So, what’s new?

It’s an everyday question. The reply to which, most often, is similarly routine: “Not much.”

Ask the question at the University of South Florida, however, and be prepared for a pretty long list.

It’s sure to reference USF’s designation by the National Science Foundation as a Top 50 research university, or its inclusion among the Top 10 universities worldwide for the number of U.S. patents earned each year, or its #5 ranking nationally for assisting returning veterans with their reintegration into life back home.

It’s bound to include the university being named a “Top Producer” of U.S. Fulbright Scholars—both students and faculty—and probable mentions of Amber Schmidt and Juan Baso, Jean Weatherwax, and Shaza Hussein, its first-ever recipients of prestigious Goldwater, Marshall, and Udall Scholarships.

And while we’re on the subject, how about the 50 USF students and alumni named to top-tier scholarships and fellowships in 2011–12, the largest such cohort in university history?

Not to be overlooked: the many changes and improvements to campus, including the additions of the LEED-certified Interdisciplinary Sciences Building and Patel Center for Global Solutions, the dramatic expansion of the Marshall Student Center, and extensive renovation of the Sun Dome. Creation of the Advanced Visualization Center and conversion of the second floor of the Library into a Science, Math, and Research Technology (SMART) Lab further enhance the learning and living environment at USF.

Don’t forget distinguished faculty members such as Chemistry Professor Michael Zaworotko, hailed as one of the Top 20 research chemists in the world; USF Health Department of Pediatrics Chief of Epidemiology Jeffrey Krischer, internationally renowned diabetes researcher; and Patel School of Global Sustainability Executive Director Kalanithy Vairavamoorthy, cited—along with Nobel Peace laureate and past U.S. President Jimmy Carter and former U.N. Secretary General Kofi Annan—as a global “Water Hero” for his work addressing aging urban water systems around the world.

Then there is the university’s emergence as a destination of growing significance for international diplomats, business leaders, and policy makers, who join an influx of more than 2,400 students and research scholars representing some 150 nations gathering on our campus each year.

A word or two about the USF musicians garnering Grammy nominations and their classmates performing at the world’s largest arts festival in Edinburgh, Scotland, would be appropriate.

And, of course, there are the Bulls and their increasingly impressive accomplishments in football, tennis, men’s soccer, men’s basketball (advancing to the NCAA Championship Tournament in 2012 for the first time in two decades), and softball (making its inaugural appearance in the Women’s College World Series, also in 2012).

A long list, indeed. Where does one begin?
USF forged ahead boldly during the five years of our Strategic Plan 2007–2012 and reached new heights in student and faculty achievement. Now a Top 50 research university as named by the National Science Foundation, USF’s reputation is advancing through recognition as one of the fastest growing research universities by The Chronicle of Higher Education and one of the nation’s five “Up-and-Coming” universities to watch as named by The Washington Post. The Strategic Plan served as both our roadmap and the measure of accountability for our students, our stakeholders, and the public at large.

Regardless of the obstacles put in our way, USF has thrived. We modernized and expanded our campus. We enhanced our profile in the community through the crucial role USF plays in economic development. We built the university’s national and international name recognition through high-profile research on critical issues and world-class scholarship. We created enduring bonds with our students and members of our community, who see USF as an integral part of a successful future.

We are a global university. Through the establishment of USF World, the university is expanding its presence and opening new study and research opportunities for students and faculty abroad. At the same time, our Tampa campus is attracting high-ranking diplomats, education, and business leaders from all corners of the world for important conversations ranging from the economy to technology to climate change.

We are more innovative, interdisciplinary, and collaborative. Initiatives such as our first-of-its-kind graduate program in global sustainability combine diverse disciplines such as civil engineering, environmental policy, public health, marine science, transportation systems, and urban planning. The intent is to provide students a comprehensive understanding of the concepts, tools, and skills that will position them as sustainability leaders of the future.

We are more entrepreneurial and engaged. Outreach efforts such as the Small Business Development Center at USF and partnerships with organizations including IRX Therapeutics, Draper Laboratory, and SRI International are helping to advance the economic development of the Tampa Bay and West Central Florida region, promoting new business formation and creating jobs. We established the Center for Advanced Medical Learning and Simulation (CAMLS) that will revolutionize how medical professionals develop their skills while having a significant economic impact on downtown Tampa.

And we are better prepared to meet the high expectations of students and our own goals for their success. With enhanced living-learning environments, more academic advisors, and new student-faculty resources such as the Advanced Visualization Center and the Science, Math, and Research Technology (SMART) Lab that opened in fall 2012 on the second floor of the Library, we have paved the way to a brighter future for both our graduates and their alma mater.

USF has become a modern, comprehensive, and relevant university increasingly well prepared for leadership both today and into the future.

Our ability to move forward in building a great American research university is nothing less than remarkable, and speaks to the incredible dedication and purpose that the USF community and our supporters all across the Tampa Bay region and the state of Florida.

Thank you for your continuing support of our outstanding University of South Florida.

Judy Genshaft, Ph.D.
President
REIMAGINING THE FUTURE, REDOUBLING OUR COMMITMENT

In May 2007, as the USF Board of Trustees approved Transforming Higher Education for Global Innovation, the university’s strategic plan and roadmap for the years 2007–2012, few could have anticipated the immense impact that the global economic upheaval would have on the institution and higher education in general.

With the Great Recession as a backdrop, the USF story, documented in the pages of this performance report, is all the more remarkable as our university emerged as one of the nation’s fastest growing research institutions—according to the National Science Foundation, rising from 66th in 2007 to 59th in 2012 among public and private universities on the basis of federal research expenditures, and from 6th to 5th for total research expenditures. Today, USF is one of only two universities in Florida ranked among the nation’s Top 50.

Built on the achievements of the highly successful 2007–2006 plan, the wide-ranging accomplishments of the past five years are the product of a university community that set a bold vision for its future and has gone on to demonstrate a focused, disciplined, and high-energy determination to reach its goals. In spite of the economic turbulence that has driven unprecedented reductions in state funding from year to year since 2007, USF’s spirit of optimism, institutional agility, and entrepreneurship has helped steer the university to new heights. Our unparalleled progress, during a period of economic decline unprecedented in USF’s history, necessitated changing business practices, implementing cost containment strategies and efficiencies, judicious spending down of institutional reserves, utilizing federal bridge funding, and generating new revenue streams. Today, USF delivers its high-quality academic programs at a lower total cost per student than it did five years ago.

It is quite clear that the funding paradigm for public universities in Florida, nationwide, and across much of the world has shifted dramatically over the past few years, with an increasing share of the cost of higher education borne by students and their families. With that has come a growing expectation on the part of both public and private sector sponsors of higher education—state government, students and their families, business and industry—for a demonstrable return on investment through globally competitive and relevant academic programs, high-impact research, economic growth, and job creation. We understand this reality and USF, like many other public universities, is on the way to reimagining its future and to assuring and demonstrating a high return for investors.

USF has long embraced performance accountability as an institutional value that not only shapes this report, but also guarantees a high value proposition for those investing in, enrolling at, and partnering with our university. For many years, we have publicly discussed and posted our goals and achievement status on our websites.

Most important, USF recognizes that the recruitment and retention of intellectual talent—bright and creative students, world-class professors, and a highly dedicated and passionate staff—represents the foundation of any great university. Moreover, the university’s location in the heart of Tampa Bay provides a diverse and appealing living laboratory for students and professors alike, while offering a breadth of opportunity for mutually beneficial engagement with the community and partnerships with the business and industrial sector.

As a top-tier national research university, USF continues to improve upon its state-of-the-art academic programs, contributing to the development of a highly skilled, globally competitive workforce benefiting the region, state, and nation, at the same time offering students attractive pathways to postgraduate study. Students and professors continue their quest for new knowledge, seeking innovative and interdisciplinary solutions to complex problems that confound us locally and beyond. Our balance in valuing basic and applied research, and our commitment to improving the communities we serve, defines our primary scope of inquiry—from healthcare to the environment, science, technology, engineering, and economic security. All this, while recognizing the essential role that a broad-based education plays in engendering the critical thinking, creative problem-solving, communication, collaboration, and global literacy skills so essential to individual and collective success in the 21st century.

This five-year performance report tells a remarkable story of a university dedicated to student and faculty success, research achievement, community connections, and institutional determination and progress in the face of immense challenges. It presents an impressive profile of a university poised to rise onto the global stage. Yet, for this to happen, the USF community will be tested by some big questions for which we all must find creative and constructive answers that will present a balanced solution to access, affordability, and quality education; redouble our commitment to student success; assure appropriate and predictable funding to support our bold vision for the future; leverage emerging technologies to creatively broaden access to education, learning effectiveness, and research productivity; and, perhaps most importantly, shore up our talent base of students and professors in the face of statewide, national, and global competition.

While this report makes us proud and inspires great confidence for the years to come, we cannot be satisfied with past achievements as we envision an even brighter future for the University of South Florida.

Ralph C. Wilcox, Ph.D.
Provost and Executive Vice President
Total research support awarded by NIH for programs in diabetes exceeded increase in federal research investment to USF between 1999 and 2009.

USF is one of the top five fastest growing research universities in the country.

In 2010–11 funding for preclinical and translational studies of Alzheimer’s Disease soared to $9.3 million.

GOAL ONE: EXPANDING WORLD-CLASS INTERDISCIPLINARY RESEARCH, CREATIVE, AND SCHOLARLY ENDEAVORS

Interesting how history works out this way, that events more than a mile below the surface of the Gulf of Mexico should help propel the University of South Florida to new heights of national prominence.

But no sooner had the true scale of 2010’s Deepwater Horizon disaster become apparent than phones started ringing at USF’s College of Marine Science.

They’ve barely stopped since.
In the aftermath of the largest oil spill in U.S. history, experts in the College of Marine Science and many of their colleagues in biology, chemistry, geology, engineering, and environmental research have become “go-to” sources regarding the consequences of the accident on the Gulf ecosystem, testifying before Congressional committees and responding to countless interview requests from national and regional media.

Such expertise also quickly placed USF at the head of an international consortium charged with monitoring the ongoing impacts of the spill, one of just eight such centers selected from more than 75 proposals nationwide. To fund the work, the Gulf of Mexico Research Initiative selected USF as administrator for a three-year, $11 million grant—a step that in turn contributed to catapulting USF into the Top 50 U.S. universities, public or private, in total research expenditures as measured by the National Science Foundation.

We emphasize “contributed to” because the bedrock for USF’s leap into the company of such revered research institutions as Johns Hopkins, Stanford, Yale, and Harvard was carved out well before most people had ever heard the words Deepwater Horizon.

“Our priorities build on our successes and also require us to create and excel in new areas and competencies.”

President Judy Genshaft, Introduction to Transforming Higher Education for Global Innovation: Strategic Plan 2007–2012

Source: National Science Foundation

Federal R&D Expenditures
In millions of dollars, 2010

With a 252 percent increase in federal research investment between 1999 and 2009, USF already was among the five fastest growing research universities in the country. That pace has only gained additional momentum during implementation of the 2007–2012 Strategic Plan.

A prime example is the USF Health Byrd-Alzheimer’s Institute. Amid an increasingly aging population, some of the most dynamic research at USF is taking place inside the laboratories of scientists focused on developing better ways to diagnose and treat the as-yet-incurable disease. Funding of those preclinical and translational studies aimed at finding new ways to eliminate from the brain the hallmark proteins associated with Alzheimer’s soared to $9.3 million in 2010–11, up from $500,000 just the year before, with much of the increase originating from the National Institutes of Health (NIH).

At the same time, USF’s Pediatric Epidemiology Center has emerged as the center for juvenile diabetes research around the world, serving as a data- and technology-coordinating hub for nearly every major enterprise conducting Type I diabetes clinical trials. No other research institution has received as much NIH funding for programs in diabetes as USF, with a total research portfolio exceeding $400 million.

U.S. Sen. Bill Nelson of Florida announces that the Florida Institute of Oceanography (FIO) based at USF stands to receive tens of millions of dollars in money set aside for ongoing research in the Gulf of Mexico following the 2010 Deepwater Horizon disaster. Sharing in the July 2012 event are President Judy Genshaft, FIO Director Bill Hogarth, and College of Marine Science Dean Jackie Dixon. Hogarth called it a “historic moment” for the Gulf, considered one of the most under-funded and understudied bodies of water in the world.
Interesting how history works out this way, that events more than a mile below the surface of the Gulf of Mexico should help propel the University of South Florida to new heights of national prominence. But no sooner had the true scale of 2010’s Deepwater Horizon disaster become apparent than phones started ringing at USF’s College of Marine Science. They’ve barely stopped since.

The work of USF physicists to find a matrix supporting spintronics holds the hope of even faster, smaller, and more versatile electronics. Spin is a quantum mechanical property characterized by the directional values “up” or “down.” This is analogous to the “on” or “off” values used in binary digital coding, most significantly in modern computers. Potential spintronic devices promise revolutionary advances in speed and energy efficiency. The big challenge has been finding a semiconductor material that allows spin to be “set” at room temperature.

Enter the USF team and a form of pure carbon known as graphene, which boasts a breaking strength 200 times greater than steel and through which electrical currents flow 100 times faster than in silicon, today’s preferred matrix for computer chips. Using theoretical computations, the research team demonstrated that by placing cobalt atoms in graphene holes—created by removing one or two nearby carbon atoms—it is possible to set spins in a controlled manner and ambient temperatures. And that, the researchers say, is a big step toward the development of practical spintronic devices.

BRINGING DOWN DIABETES

“I believe we have the right combination of science and strategy to be able to eliminate Type I diabetes for the next generation.”

Jeffrey Krischer, Ph.D., USF Health chief of epidemiology

The 2008 arrival on campus of Jeffrey Krischer, Ph.D., endowed chair in diabetes research at USF Health, signaled another major advance in the university’s initiative to create a nationally prominent program in diabetes and autoimmune disorders. Under his leadership, 50-plus researchers with expertise in developing and applying new technologies and informatics to medicine have created an integrated program for controlling and treating Type 1 diabetes, also known as juvenile diabetes, and aggressively working toward its eradication. They’ve made USF a preeminent force in international studies of the epidemiology of Type 1 diabetes as well as in clinical trials for diabetes prevention and treatment.

The need is urgent. The incidence of Type 1 diabetes has doubled worldwide since the 1980s and is now considered an epidemic among children, with one out of every 300 youngsters affected.

The research in diabetes complements our other projects in rare diseases, many of which also have an autoimmune component and may share common etiological pathways,” says Krischer, whose team has attracted more than $400 million in research funding to USF. On Nov. 14, 2011—World Diabetes Day—USF’s diabetes program also officially opened its new family-friendly facility on the fifth floor of the Carol and Frank Morsani Center for Advanced Health Care. Unique to the 10,000-square-foot collection of exam rooms, laboratories, and offices is the famous Tate Teaching Kitchen, where hands-on teaching by dietitians helps patients and their families understand the nuances for maintaining good nutrition and dietary habits to successfully manage their disease.

Total R&D Expenditures

In millions of dollars, 2010

Source: National Science Foundation
With support from the Gates Foundation, the College of Public Health’s Global Health Infectious Diseases Research Team—including more than 60 faculty members, staff, and students—is working with Draper Laboratory to advance the discovery of new therapies for preventing and curing malaria, a mosquito-borne scourge that the World Health Organization blames for one million lives lost each year.

Already, a collaboration with the not-for-profit, Switzerland-based Medicines for Malaria Venture has yielded a new series of concepts that offer promise in attacking the disease on several fronts.

Microsoft co-founder Bill Gates pays a surprise visit to USF researchers at Palmer Station in Antarctica, where they spent four months in 2010 conducting research on metabolites produced by indigenous organisms, including algae collected from ocean waters below the ice shelf. The goal of the ongoing work by Chemistry Professor Bill Baker and his students is to identify promising substances that pharmaceutical companies might develop further into new drugs.

World’s first-ever glass window capable of generating electricity is being made possible through the use of the world’s smallest working organic solar cells, developed by Xiaomei Jiang, a University of South Florida physics professor. Until now, solar panels have been opaque and don’t allow for light to pass through the glass surfaces. As an added benefit, the new solar cells also generate electricity from both natural and artificial light sources, outperforming today’s commercial solar and thin-film technologies by as much as tenfold. In bottom photo, Jiang and Ph.D. student Jason Lewis show reporters how the cells work. The innovation has attracted attention from both business and technology-related media from Wall Street to Silicon Valley in California.

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Such creativity and innovation is a big reason why the University of South Florida ranks among the top 300 organizations worldwide granted U.S. patents in 2010 and 2011. Counting universities only, USF ranks 11th overall (9th among U.S. universities) on the list and is the only Florida university in the report.
How do you measure the success of a university?

Research investment? Faculty honors?
Quality of facilities? Athletic success?

At the University of South Florida, we benefit from all of those things. But our focus first and foremost remains the success of our students.

“Our graduates are the best measure of our performance as a top-tier national research university,” observes Provost and Executive Vice President Ralph Wilcox.

On April 1, 2010, Juan Baso and Amber Schmidt became the university’s first Goldwater Scholars. For as long as there is a USF, Juan and Amber Schmidt, Jean Weatherwax, and Hussein will forever be “first;” the university’s recipients of prestigious Goldwater, Marshall, Udall Scholarships, and key figures in its growing implementation of the Strategic Plan in 2007, has raised the number of students receiving top-tier national scholarships each year from two to a record 50 in 2011–12, more than any other Florida university!

The trend is clear, and accelerating. The best and brightest students are selecting USF as their academic home, and the university is doing all that it can to help them fulfill their dreams and improve society.

GOAL TWO: PROMOTING GLOBALLY COMPETITIVE UNDERGRADUATE, GRADUATE, AND PROFESSIONAL PROGRAMS THAT SUPPORT INTERDISCIPLINARY INQUIRY, INTELLECTUAL DEVELOPMENT, KNOWLEDGE AND SKILL ACQUISITION, AND STUDENT SUCCESS THROUGH A DIVERSE, FULLY ENGAGED, LEARNER-CENTERED CAMPUS ENVIRONMENT.
“The immediate goal is graduation from college. We put it in their minds from day one, four years from now you’ll hear your name announced and you’ll be walking across the stage at the Sun Dome. Personal support makes students believe they can do it and we constantly reinforce that message.”

Mark Davis, director, Project Thrust

While the prevailing economy continues to present new challenges for students and the institution alike, at the same time it puts in clear relief the remarkable accomplishments of each during the span of the university’s Strategic Plan 2007–2012. Despite the significant headwinds, USF is welcoming increasingly well-qualified students, earning more academic scholarships and fellowships, and awarding degrees that are respected and in demand in a globally competitive marketplace—in record numbers.

Central to that are the internationally known teachers, researchers, and artists who have created at USF a distinctive educational environment characterized by the interdisciplinary and collaborative discovery, application, and sharing of new knowledge. From the rich curriculum of our Foundations of Knowledge new knowledge. From the rich curriculum of our Foundations of Knowledge, students and the institution alike, at the same time it puts in clear relief the remarkable accomplishments of each during the span of the university’s Strategic Plan 2007–2012. Despite the significant headwinds, USF is welcoming increasingly well-qualified students, earning more academic scholarships and fellowships, and awarding degrees that are respected and in demand in a globally competitive marketplace—in record numbers.

Professional colleagues across campus enhance that work, ensuring that personal growth accompanies academic growth; that activities and events enrich the learning experience and add to the social and cultural life of campus; that scholarships, fellowships, and internships are available to the greatest number of high-achieving students; that the buildings stay cool and the meals hot, and that the technology works.

At the same time, civic knowledge and participation are reinforced through local engagement efforts and international education abroad experiences, encounters that promote active learning in diverse settings and bring students in closer contact with people, organizations, and cultures of vastly different backgrounds, circumstances, and outlooks.

They have responded enthusiastically, bringing honor to themselves, distinction to their alma mater, and innovative solutions to many real-world problems.

The university’s first Marshall and Udall Scholarship winners in 2012 were just the tip of the iceberg in a year of remarkable scholarly achievements, including a total of seven Robert Noyce Teacher Education Grants, one National Science Foundation Science and Mathematics and Diversity (STEM) Grant, two Presidential Management Fellowships, two Florida Graduate Fellowships, two Fulbright Scholarships, two Critical Language Scholarships, and five Fulbright U.S. Student Awards. At last count, the largest cohort of major scholarship and fellowship recipients in USF history. “Clearly our strategic emphasis on student success has taken root and is bearing handsome results,” Provost and Executive Vice President Ralph Wilcox says.

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Chemistry major Baso and microbiologist Schmidt began the procession in 2010, securing two Barry M. Goldwater Scholarships, the nation’s premier undergraduate award in science. Baso’s undergraduate interest in methodologies that can be applied to the creation of new, more effective, and less costly cancer drugs has advanced to studies in synthetic organic chemistry and its potential for new oncological therapeutics.

Schmidt’s research on telomerase activity, the biochemical reaction at the ends of chromosomes that provides protection, has since evolved—following several months assisting in a hospital for sick and destitute children in Lima, Peru—into participation in a maxillofacial and oral surgery/M.D. dual residency program in Arizona.

Since implementation of the Strategic Plan in 2007, USF has raised the number of students receiving top-tier national scholarships each year from two to a record 50 in 2011–12, more than any other Florida university! The trend is clear, and accelerating. The best and brightest students are selecting USF as their academic home, and the university is doing all that it can to help them fulfill their dreams and improve society.

Along with being USF’s first Udall Scholarship recipient, Shaza Hussein had the honor of being the only student in Florida to earn the coveted award in 2012. It supports undergraduate research related to the environment, including economics, engineering, health, natural resource management, and urban planning and renewal.

She’s also among USF’s swelling number of multi-scholarship winners. A previous Hollings Scholarship for Atmospheric Science enabled Hussein’s internship at the Wells National Estuarine Research Reserve in Maine. She’d already completed an internship with the National Weather Service in Tampa. Her focus is environmental education, particularly for children. Her months in Maine were devoted to enhancing outdoor education programs for kids during the sanctuary’s busy summer season.

“I plan to be an advocate, activist and researcher all at the same time…When you’re an environmentalist, you just can’t help but be active out there.”

Shaza Hussein, USF’s first Udall Scholarship winner

Generally, fewer than 40 American students receive Marshall Scholarships each year. With her generous stipend, Weatherwax plans to continue her research on innovative implantable medical devices, including the world’s first bio-inspired artificial pancreas under development at Imperial College for treatment of Type 1 diabetes.

With her minor in music performance, she is taking along her trumpet in anticipation of joining London’s Ad Hoc Humanitarian Community Orchestra. Launched in 2003, the famous collective of professional and amateur musicians raises money in support of charitable relief efforts worldwide.

History makers. For as long as there is a USF, Juan Baso and Amber Schmidt, Jean Weatherwax, and Shaza Hussein will forever be “first,” the university’s first recipients of prestigious Goldwater, Marshall, and Udall Scholarships, and key figures in its growing record of nationally competitive scholarship success. Since implementation of the Strategic Plan in 2007, USF has raised the number of students receiving...
It’s hard to quarrel with his qualifications: B.S. in Biomedical Sciences; M.S. in Marketing. Captain of the men’s soccer team. BIG EAST Scholar-Athlete of the Year. First Team Academic All-America. Recipient of the John Wooden Citizenship Cup from Athletes for a Better World. Fulbright Scholar. Major League Soccer (MLS) Humanitarian of the Year. M.D./Ph.D. candidate intending an eventual career in medicine and cancer research. Volunteer high school assistant soccer coach.

By every measure, Zak Boggs is the model that universities, charities, sports marketers, and parents everywhere look to to represent the finest qualities of higher education, civic responsibility, athletic success, and all-American potential.

“Zak really embodies what it means to be a USF student-Athlete,” says Justin Miller, former assistant athletic director for student-athlete development.

In the fall of 1999, Zaworotko started his career at USF in a new field called porosity. A decade later, his research places him among the top 20 chemists in the world, according to the leading scientometric firm Thomson Reuters. Early studies into the unique properties of porosity have given way to intensive research with hope for solving some major problems the world faces, especially in terms of energy. Porosity offers “something to filter carbon dioxide as it is released in power plants. It also can help with problems in transporting hydrogen gases and improves energy uses in industrial processes,” explains Zaworotko. As part of the interdisciplinary Smart Metal-organic Materials Advanced Research and Technology Transfer (SMMARTT) group, his current research takes in the emerging class of materials comprised of combinations of molecular building blocks known as metal organic materials.

ROLE MODEL

MIKE ZAWOROTKO

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ZAK BOGGS

and academics. “He has demonstrated the ability to succeed at an extremely high level in everything he takes on.”

Raised in the foothills of the Appalachian Mountains (Vienna, W.Va.), an area infamous for its cancer clusters, and motivated by a grandmother lost to cancer, Boggs applied his Fulbright grant to obtaining a master’s degree in medical sciences at the University of Leicester under the mentorship of Dr. Ian Eperon, examining potential cancer treatment pathways through mRNA splicing.

Back stateside, when not pursuing his medical studies or volunteering at Boston Children’s Hospital, Boggs is a starting midfielder for the New England Revolution of the MLS.
GOAL THREE: EXPANDING LOCAL AND GLOBAL ENGAGEMENT INITIATIVES TO STRENGTHEN AND SUSTAIN HEALTHY COMMUNITIES AND TO IMPROVE THE QUALITY OF LIFE.
As any demographer or corporate CEO will attest, the most significant geopolitical and socioeconomic trend today is globalization. It is a world-altering force that continues to gain momentum from the great leaps in technology that have eroded the boundaries of nations and changed how we associate, communicate, navigate, and otherwise participate in daily life.

All of which has significant implications for how we educate students expected to one day assume their appropriate places as responsible and productive members of society.

“To be competitive after graduation, students must have an understanding of international culture and education,” proclaims Maria Crummett, USF’s associate vice president for international affairs. “For our students, who, as a two-time Fulbright U.S. Scholar in Colombia and Japan, is particularly close to the value and rewards of study or research abroad. High on her list of benefits are exposure to new ideas and philosophies, accelerated real language acquisition, increased readiness to adapt to new environments, greater independence and self-confidence, extended networks with international friends and professional colleagues, and, most importantly, enhanced knowledge and skills necessary for success in the new global economy.

“Global research universities build their futures by being fiercely competitive, but they are also committed to collaboration and cooperation.”

—Karen Holbrook, senior vice president for global affairs and international research

“it gives them a career advantage to have that basic understanding of the world,” concurs President Judy Genshaft. “Everything we do now must be global.”

A bold ambition, and one the university has worked diligently to achieve.

In 2009, despite the added challenges brought on by a national economy in recession, it established USF World, with a charge to develop and direct the policies, strategies, and procedures needed to make USF the destination for those committed to global engagement.

Now consolidated—and coordinated—under USF World’s banner are administrative responsibilities for Education Abroad (today comprising some 35 programs in 28 countries), International Services (the main administrative and immigration advising office for roughly 2,100 international students and 200 research scholars from more than 130 countries), International Agreements (currently in effect in more than 140 locations around the world), the Global Academic Partnerships program (managing a small number of high-impact strategic partnerships with like institutions in China, Ghana, and the United Kingdom), and Office of Military Partnerships (coordinating USF’s activities with the U.S. Department of Defense), as well as the various USF centers and institutes that enhance the university’s global presence and impact. Among the latter is the new Center for Strategic and Diplomatic Studies, set up in 2012 to develop academic programs, conduct research, and formulate non-partisan policy recommendations addressing many of the critical international issues of our times.

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Along with their laptops, clothes, sheets and towels, first-time college students often bring another important item—their passports. At the University of South Florida these days are urged to bring these passports. Why do we do that? Then you’re left thinking, “Why do we do that?”

In addition to traditional study abroad, student and faculty exchanges, curricular offerings with an added international component, and joint and dual degree programs, USF World includes collaborative research, joint research, internships, service-learning experiences, and outreach and engagement well beyond our state and nation,” says Karen Holbrook, senior vice president for global affairs and international research. “These relationships also benefit our students——graduate, undergraduate, and professional—who are part of shaping the entire world around us, and they enhance the reputation of USF globally.”

In recognition of these advances, USF was selected in 2010 by the Association of American Colleges and Universities (AAC&U) as one of 32 universities to participate in General Education for a Global Century, a curriculum and faculty development project aimed at educating students in all aspects of a rapidly globalizing society.

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“Learning about a different culture really opens your eyes to your own, as well. You may find small things that seem insignificant, just parts of who we are … until you have somebody ask you, ‘Why do you do that?’ Then you’re left thinking, “Why do we do that?””

Also in recent years, the university has created the GoBull Ambassador program, affording students that have experienced education abroad the opportunity to share their reflections with classmates thinking about or already in the process of preparing to take the big step.

In addition, USF World set up an education abroad adviser office in the Marshall Student Center and the university established the Office of National Scholarships, which assists students in applying for a broad array of undergraduate and graduate awards, many of them, such as the Boren, Fulbright, Gilman, and Marshall Scholarships, encouraging and supporting study and research abroad.

The return on those initiatives has been nothing short of astounding, placing USF—in the words of Honors College Dean Stuart Silverman—“in another league.”

Between the academic years 2006–07 and 2011–12, the number of USF students going abroad each year swelled by nearly 50 percent. Among their number in 2012, a record 18 students earning Gilman Scholarships; in fact, only five other American universities sent more Gilman Scholars abroad during summer ’12 than the University of South Florida.

Sponsored by the U.S. Department of State, the competitive and highly-prized awards of up to $5,000 are intended to better prepare U.S. students to assume significant roles in an increasingly global economy and interdependent world by promoting “non-traditional” study abroad destinations. Visa stamps in the passports of recent Gilman Scholars from USF include Bolivia, Chile, China, Japan, Malaysia, Peru, South Africa, and Thailand.

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Tina Danh, ‘13, Gilman Scholar
Husband and wife team Kenzo and Jane Koike, graduate students in USF’s Morsani College of Medicine, spent fall and spring semesters 2011–2012 in Peru volunteering with Doctors for Global Health.

And while the university continues to invest considerable resources to make its students and faculty feel more at home in the world at large, so, too, is it working hard to welcome a growing number of international visitors to its campus in Tampa.

“International students in our classrooms enhance the quality, relevance, and value of a USF education,” says Provost and Executive Vice President Ralph Wilcox, insisting that such diversity is critically important for students to develop a global mindset.

Key to USF’s international recruitment efforts is a public–private partnership forged in 2010 with INTO University Partnerships, a United Kingdom-based organization focused on creating distinctive and exceptional study experiences for college students worldwide.

Already the affiliation—one of just three between INTO and U.S. universities—has done much to grow and diversify USF’s international population and at the same time raise the university’s global profile. In 2011–12, the INTO USF Center on campus was host to more than 600 students from 45 nations, a 17 percent increase over the Center’s enrollment during 2010–11 and a 16 percent margin above the program’s originally planned targets.

INTO USF’s achievements since its launch have not been limited solely to its success in attracting large numbers of international students, however. Enrollees in its academic “Pathways” and English language programs also have performed at considerably higher levels than first anticipated. More than 80 percent of those in the inaugural 2010–11 cohort qualified for progression to USF degree programs, and an impressive 92 percent of those qualified students then chose to actually enroll at USF.

“Our international students have unique needs and they’re getting the message that USF is a place where they can succeed,” says Glen Besterfield, director of the INTO USF Center and associate professor of mechanical engineering. “The goal is to see our international recruits integrated into the broader university community, with additional support in getting them acclimated to the U.S. and to studying as full-time degree-seeking students. In years to come, we want more international students calling USF ‘home.”

What the Heart Remembers:
USF professors Jeanne Travers and Fanni Green collaborated on the original dance/theatre piece, “What the Heart Remembers: The Women and Children of Darfur,” which attempts to convey the experiences of families in the refugee camps left by decades of war and genocide in Sudan, scene of the continent’s longest civil war. In summer 2012, a large and dedicated company of theatre and dance students performed the work at the Edinburgh Festival Fringe in Scotland—the largest arts festival in the world—having been nominated for an Amnesty International Freedom of Expression Award honoring performing arts that champion the right to speak freely.
From designing and implementing a program to promote self-esteem among young girls in a historically underserved neighborhood just a few miles south of campus in Tampa, to disassembling and rebuilding water pumps an ocean away in Mali, West Africa, USF students and faculty continue to bring credit to the university and its designation in 2006 by the Carnegie Foundation for the Advancement of Teaching as “community engaged.”
In 2012, USF also earned a place on the President’s Higher Education Community Service Honor Roll, in recognition of the nearly 50,000 hours of volunteer work contributed by students, faculty, and staff during the previous year.

While pleased by the Carnegie and presidential honors, University leadership maintains the objective of USF’s outreach is less about recognition and more about making a difference in the lives of students and those they touch, whether across the street or around the world.

“At USF, we emphasize community engagement and service as an important and meaningful part of our students’ education,” says President Judy Genshaft, mindful of the many studies indicating that students who participate in service-learning generally get better grades, are more likely to graduate, and become more involved citizens than those who do not have such experiences in college.

“Universities are at their best when they reach beyond campus boundaries and channel the energy, creativity, and knowledge of their students, faculty, and staff toward helping the larger community solve its most difficult problems,” she adds. “It is one of the university’s most important goals.”}

The College of Education receives the Florida Department of Education’s Just Read Florida! Award and a $500,000 project grant to document and study improvements in reading skills.

The university’s PCORI and Program Energy Florida are selected by Florida’s Energy and Climate Commission to build the largest and most comprehensive smart grid in the Southeast.

USF establishes the Office of Community Engagement.

USF joins forces with the Pat Tillman Foundation in support of its Tillman Military Scholars program, which provides educational scholarships for veterans and active service members and their dependents.

USF Power Center for Utility Explorations (PCUE), Tampa Electric Co. (TECO), and Tampa’s Lowry Park Zoo announce a partnership to design, develop, and test a renewable solar energy system at the zoo to be funded, in part, by a grant from the Florida High Tech Corridor.

USF and John F. Kennedy Space Center announce a long-term agreement to expand research opportunities in space science to benefit students and faculty. The agreement provides expanded learning programs and valuable civic engagement opportunities for the region and state.

So important that in 2009 USF established its Office of Community Engagement (OCE), which, in addition to working with departments and colleges to consider community engagement opportunities, submitting grant applications, and conducting fundraising to advance its mission, provides a single point-of-contact for community organizations seeking professional expertise and volunteer help.

The response has been “mixed,” in the sense that while the rush of groups presenting themselves as potential partners has multiplied the number of service-learning opportunities available to students and faculty, it also reflects the extent of need as nonprofit groups regionally, nationally, and globally continue to try to cope with the lingering financial impacts of the Great Recession.

“We define our ‘community’ broadly. After all, USF students and faculty are engaged in research and learning all over the globe. But our primary focus is likely to be (remain) our very own large ‘backyard’—the Tampa Bay community in which most of us live and work,” says Elizabeth Strom, associate professor of geography and OCE director.

“Getting involved and being a part of a lot of organizations kind of opened the door for me so I could give back to the community and make Tampa Bay a better place.”

Andre Pert, graduate student in Public Administration, on his involvement in USF’s annual Stampede of Service.

Mechanical engineering major Marie Chenoweth shakes hands with the future, otherwise known to NASA—where she completed an internship in robotics—on Rebreath 2, since installed on the International Space Station (ISS).

“Without going there and witnessing it hands on, I would never have any idea of some of the things we use today that NASA is responsible for, like the flip phone and laptop technology,” she says.

Florida Gas, Chucks Cluck and Draper Laboratory CEO Jim Shields announce that Draper Laboratory Inc. will establish a research and development center of the University of South Florida in Tampa and a nearby Multichip Module center, creating 100 new jobs.

USF’s College of Medicine and Lehigh Valley Health Network announce an affiliation that will create a Health Care Leadership Track, a medical education curriculum to train a new generation of 21st century physicians leaders.

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In its Surgical and Interventional Training Center (SITC), residents learn how to perform robotic, computer-assisted, and image-guided surgeries. The SITC features the only hybrid catheterization lab in the world.

“CAMLS marks an important new chapter not just for USF Health and the Tampa Bay community, but also for how health education and evaluation are performed across America,” says Dr. Stephen Jonas, dean of USF’s Morsani College of Medicine and CEO of USF Health.

An important previous chapter in USF Health’s community outreach efforts occurred almost exactly one year before the debut of CAMLS, in spring 2011, when it was announced that the coalition of the College of Medicine, the Colleges of Nursing, Public Health, and Pharmacy, as well as the School of Physical Therapy and Rehabilitation Sciences, was joining forces with The Villages, a nearby senior residential development, to create “America’s Healthiest Hometown.”

Key to that initiative is a health needs assessment of each resident of The Villages—all 80,000 of them—making the first-of-its-kind undertaking available not only to individuals through a password-protected Internet portal, but also to their primary care physicians as an extra means of providing participants with data designed to help them lead healthier, happier, and longer lives.

“It’s an opportunity to improve the quality of life for retirees,” says Dr. Les Miller, cardiovascular sciences chairman for the project and a leading advocate for personalized medicine. “We hope to bring new and innovative thoughts to The Villages to try and focus on issues that include cardiovascular health, neurological health and well-being, as well as cancer screening, to enhance the life and longevity of residents there. It’s truly beyond anything I have seen.”

Among the many examples of this transformative local-global approach—from both student and faculty perspectives—are Jeannese Castro, ’11, and Associate Professor of Anthropology David Himmelgreen. Castro grew up in the economically disadvantaged Tampa neighborhood of Sulphur Springs and recently returned there—as part of her undergraduate course Urban Life and Culture—to work at Moses House, a community-based not-for-profit organization providing cultural and educational programs and activities for at-risk children and youth from low-income families. Together with several classmates, she created the Moses Girls Program, a curriculum on girls’ health covering topics such as body image, healthy relationships, nutrition, stress, and peer pressure.

Once on the verge of dropping the course in order to “uncomplicate” her way toward graduation, Castro now credits the experience with influencing her decision to enroll as a graduate student in USF’s College of Public Health, where her concentration is on maternal and childhood health.

At roughly the same time that Castro was traveling the few miles back and forth from campus to Sulphur Springs, Himmelgreen was three hours removed from any major city, down “not entirely paved” roads, participating in a University of South Florida field school located in a rural area of the Tilarán mountain range in Costa Rica. For more than a decade, scores of USF students and faculty have rotated through the school, conducting research into the unintended consequences of global integration; in Himmelgreen’s case, the effects of the indigenous community’s diet transitioning from one of locally-produced food to expensive, imported junk food.

The results of his research will add to our understanding of the importance of food security in places undergoing rapid economic transformation as a result of global influences associated with tourism.

The new USF Center for Advanced Medical Learning and Simulation (CAMLS) combines simulation experience with education and research excellence to redefine healthcare for the future. Doctors, nurses, pharmacists, and other healthcare professionals from around the world can sharpen cognitive, behavioral, and technical competencies as individuals and teams. Engineers can fine-tune prototypes for new medical devices, and military medics can stage simulated trauma patients that graphically mimic soldiers seriously wounded in combat.

Integrating 90,000 square feet on three levels in downtown Tampa, the center features a multipurpose design allowing healthcare learners to move seamlessly from an interventional procedure to an open surgical procedure without changing suites, saving precious minutes. In its Surgical and Interventional Training Center (SITC), meanwhile, surgeons, interventional cardiologists, interventional radiologists, and residents learn how to perform robotic, computer-assisted, and image-guided surgeries. The SITC features the only hybrid catheterization lab in the world.

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“A business is only as good as the company it keeps, and the organizations we choose to partner with make a bold statement about our business values. We’re excited for this new opportunity to partner with USF and offer students internships and practical experience in sports and entertainment management in the ‘living laboratory’ of Tampa Bay.”

Jeff Vinik, chairman and governor of the NHL Tampa Bay Lightning, on the announcement of a new MBA program in sport and entertainment management at USF supported by the Tampa Bay Lightning and the Lightning Foundation

“Community engagement” at USF also equates to partnerships with area business and industry. Favorably located within a large, vibrant, and culturally diverse metropolis well known internationally for tourism and trade—and, increasingly, for technology and entertainment—the university has pursued initiatives and programs that take best advantage of those assets. In the process, it has greatly expanded opportunities for students to gain real-world experience while adding to the economic vitality of the region, state, and nation.

USF represents an outstanding resource for Tampa Bay companies,” affirms Tom Trotter, vice president and general manager of Chromalloy Castings in Tampa, part of Chromalloy Gas Turbine LLC, a $1 billion global company involved in the manufacture and repair of close-tolerance steel and ceramic parts for gas turbine engines used primarily in military and commercial aerospace applications.

Since 2010, following a visit to the company’s Tampa plant by College of Engineering Dean John Wiencek, COE advisory board member Charlie Touchton, and USF Vice President of Economic Development Rick Baker (a former mayor of St. Petersburg), the College has channeled a steady stream of students into internships at Chromalloy, where they get practical, hands-on experience in quality engineering. In return, Trotter says, the firm benefits from “fresh sets of eyes” that can provide new insights on some of its production processes.

“We take our internship program very seriously,” he adds. “It is a great source of future employees.”

And indeed, at least two USF engineering alumni have gone on to secure permanent positions with the company as a consequence of their internship experiences, helping—in Provost Ralph Wilcox’s words—to stem the “brain drain” that often occurs when bright and talented students leave the region or even the state because they can’t find suitable positions in the area economy after graduation.

“Over the past two decades the mission and purpose of the research university has shifted dramatically, from an isolated ivory tower to an engaged institution that partners with its communities to promote civic culture, drive economic development, and improve the quality of human life.”

Eric Eisenberg, dean, College of Arts and Sciences

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Environment & Sustainability
Patel Center for Global Solutions
and Interdisciplinary Sciences
Building receive
Gold Certification
for Leadership in Engineering and
Environmental Design (LEED)

The 2012 Second Nature
Climate Leadership Award
given to select schools for “unparalleled
campus innovation and climate leadership”

#12 coolest school
as ranked by Sierra magazine
in 2012

A master of arts program in global
sustainability, the first of its kind, was
launched in 2010

38 of 54 academic departments
at USF
have faculty members actively
engaged in some manner of
sustainability research

The university’s many sustainability efforts, such as using air
conditioner condensate instead of fresh water for ornamental
toilets, has earned USF a “Gold” rating from the Association for
the Advancement of Sustainability in Higher Education.

Sustainability is not just a buzz-word
at the University of South Florida.
It’s a way of life, reflected in the
classes that we teach, the research
that we conduct, and, literally, the
very building blocks of our campus.
Since the initiation of our Strategic Plan 2007–2012, USF has seen the addition of its first two fully sustainable structures: the Dr. Kiran C. Patel Center for Global Solutions and the seven-story, 238,000-square-foot Interdisciplinary Sciences Building for physics, biology, and chemistry. Both opened only months apart in 2011 and each has earned coveted “Gold” Leadership in Energy and Environmental Design (LEED) certification under the strict standards of the U.S. Green Building Council.

The university’s commitment to their eco-friendly design and construction also figured prominently in USF being honored with a 2012 Second Nature Climate Leadership Award. Given to select schools for “unparalleled campus innovation and climate leadership” on behalf of the nearly 700 institutions endorsing the American College & University Presidents’ Climate Commitment, it is regarded as the highest accolade for sustainability efforts in higher education.

Nobel Peace laureate and past U.S. President Jimmy Carter, Former U.N. Secretary General Kofi Annan, University of South Florida Professor of Civil and Environmental Engineering Kalanithy Vairavamoorthy. These three share in common the distinction of being named to a new list of 25 global water heroes compiled by Impeller magazine.

The online journal, a publication of worldwide water technology provider Xylem, compiled the list from thousands of names of people devoted to drawing attention to the world water crisis and solving water-related issues through research, policy making, and other efforts including public advocacy, journalism, and documentary filmmaking.

Kalanithy Vairavamoorthy
USF’s WATER HERO

“Their innovations and actions are shaping the future of water policy globally. They are creating the nation’s next generation of water heroes.”

On campus as part of the fight against global climate change.
The university's many sustainability efforts, such as using air conditioner condensate instead of fresh water for ornamental fountains, has earned USF a “Gold” rating from the Association for the Advancement of Sustainability in Higher Education.

Sustainability is not just a buzz-word at the University of South Florida. It’s a way of life, reflected in the classes that we teach, the research that we conduct, and, literally, the very building blocks of our campus.

Of course, it’s not just the buildings on campus but what occurs within them that propels USF’s flourishing reputation for excellence in effecting environmental change.

Of the 54 academic departments at USF, 38 have faculty members actively engaged in some manner of sustainability research. Across the curriculum, meanwhile, the university offers roughly 390 courses either sustainability-focused or sustainability-related, including classes in solar energy, water policy and management, intelligent transportation, and green technology.

And because environmental factors such as air pollution and rising sea levels are not constrained by marks on any map, USF has embraced the global reach of these issues by establishing the Patel School of Global Sustainability.

Located within the Patel Center and leveraging existing strengths in faculty expertise in global sustainability, the school seeks—through collaborative research, education, and community involvement—to generate new knowledge and innovations that will help cities around the world, including those in developing countries, reduce their ecological foot-print while improving their form and function to make them healthier, more livable, and ecologically resilient.

It also serves as home for USF’s Master of Arts in Global Sustainability. Begun in 2010, the first-of-its-kind program provides students with a comprehensive understanding of the concepts, tools, and skills of sustainability and green technology with focus areas including development, transportation, energy, and sustainable enterprise. Students also have the opportunity to participate in internships with some of the largest and most respected organizations in the world dealing with complex regional, national, and global challenges related to sustainability and innovation.

“We are really preparing the next generation of sustainability leaders,” says Patel School Executive Director Professor Kalanithy Vairavamoorthy.

“We’re a young university but we look far into the future, and no research is more important than that which focuses on the health of our environment. I believe that by working together through innovative research, we can make a tremendous positive impact on the environment of Florida and the world.”

President Judy Genshaft

For the third year in a row, USF was named one of Sierra magazine’s “Coolest Schools” in 2012— vaulting up the rankings to #12 from #47 the year before. “We have invested considerable creative energy, human hours, and financial resources through the years to make USF a ‘greener’ campus,” says President Genshaft. “From planting new trees on campus to removing all Styrofoam from the dining halls, USF is engaged in lessening its environmental impact and encouraging others to do the same.”
ATHLETICS

4 BIG EAST CHAMPIONSHIPS

The Usf softball squad earns its first trip to the Women’s College World Series in 2012

BACK-TO-BACK BIG EAST STUDENT-ATHLETE OF THE YEAR

Zak Boggs, 2008–09
Francisco Aristeguieta, 2009–10

The men’s basketball team advance into the 2012 NCAA CHAMPIONSHIP TOURNAMENT

One of 11 finalists for USA Softball National Player of the Year honors, sophomore pitching sensation Sara Nevins was a major factor in the USF softball team’s advancing to the NCAA Women’s World Series for the first time in program history in 2012. In 55 games, the Pinellas Park, Fla., native tossed three no-hitters, including back-to-back gems on consecutive days, and also recorded one perfect game en route to a 31–8 record (eighth best in the nation for wins). Her season ERA of 1.12 ranked fourth nationally, and her 336 strikeouts was seventh best in the country.

Pam and Lee Meenan, USF alumni, civic leaders, and local philanthropists, donate $3 million as the lead gift toward construction of a basketball center for local philanthropists, donate $3 million as the lead gift toward construction of a basketball center for men’s and women’s programs.

USF names Skip Holtz as its new head football coach.

USF President Judy Genshaft is appointed to the NCAA Division I Board of Directors.

USF football player George Selvie is named a First Team All-America selection by the American Football Coaches Association for the second consecutive season.

Coach Stan Heath’s USF men’s basketball team defeat California 65-54 in the third round of the NCAA Division I Championship Tournament, the first time in 20 years that the Bulls received an invitation to “the Big Dance.”

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“IT’S ABOUT BUILDING AND MAINTAINING AN ENVIRONMENT THAT STUDENTS REALLY CAN TAKE PRIDE IN AND FEEL A PART OF IN AN ENGAGED WAY. WHEN STUDENTS FEEL BETTER, PARENTS, FACULTY, DONORS, AND ALUMNI FEEL BETTER ABOUT USF.”

Sandra Lovins, vice president, Administrative Services.

The resolution of the Advanced Visualization Center’s 16 monitors is more than twice that of an IMAX screen.

The acoustical “cloud” in the School of Music’s main concert hall weighs more than 30 tons.

Patel Center for Global Solutions includes an underground recycled water tank.

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The seven-story Interdisciplinary Sciences Building claims the title for tallest on campus. At 238,500 square feet—including two 300-seat auditoriums, classrooms, and research labs for the physics, biology, and chemistry departments—it’s also the largest and one of the busiest, welcoming more than 15,000 students per semester, from undergraduate core curriculum to science majors and graduate students.

Opened in 2011, it also brings together more than 150 interdisciplinary research scientists and 100 doctoral students collaborating on a variety of projects, such as finding a solution for antibiotic-resistant bacterial infections, creating clean and renewable energy, testing new preventions for Alzheimer’s disease, developing new cancer treatments through nanomedicine, and advancing the next generation of sensor technologies.

Constructed from a variety of sustainable resources in order to reduce its impact on the environment, it includes stainless steel handrails comprised of 80 percent post-industrial scrap. Acoustical ceiling tiles contain two-thirds recycled content. Multiple open plan areas provide outdoor views and plenty of natural light. Additional sustainable building practices ensure the highest standards of indoor air quality, helping to make the building the second on campus to be awarded the coveted LEED Gold rating for sustainability, following the Patel Center for Global Solutions.

A new collaborative learning lab carved out of the second floor of the Library greeted incoming and returning students in fall 2012. It includes more than 300 computer workstations and is geared toward improving student performance in science, technology, engineering, and mathematics (STEM) related coursework. As with all interdisciplinary and student success initiatives at USF, the area’s resources are available to undergraduate and graduate students regardless of discipline.

The Library already is the most frequently visited location on campus, notes Dean Bill Garrison, who expects the second floor conversion to complement the “wildly popular” Learning Commons on the first level as another favorite meeting, sharing, and studying spot for students. He credits them for the changes.

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SCHOOL OF MUSIC

One of the most elegant and acoustically significant buildings in all of higher education, the new School of Music building opened in 2011 and immediately sent the message that music matters at USF.

The reverberation of every musical note produced by voices and all other instruments has been carefully taken into account down to the angle and texture of the walls and the soundproofing to prevent competing sounds from clashing. The very air is processed in a way that won’t interfere with the sound of music.

The breathtaking main concert hall is the place where audiences connect with performers in the most formal of the various settings provided by the dynamic structure. It boasts acoustic designer Charles Bonner’s heaviest—at 30 tons—“cloud,” the signature ingredient in his sound control mix.

An adjustable acoustical ceiling reflector system seems to float above the stage, and every time one of the cloud’s white panels is adjusted, the air volume above the performers changes. When configured properly, it can essentially make a large hall sound like a small one, the kind of intimacy most desirable for small ensembles, soloists, chamber music, and small choral groups such as USF’s Professional Choral Institute.

The latter’s performance of Brahms’s German Requiem, recorded in the main concert hall, was nominated for a Grammy Award in 2012.

A key part of USF’s initiatives to admit, transition, and progress students to graduation within four years is the policy requiring all first-time in college (FTIC) students to live on campus. Research shows that students who get involved in campus life and engage in educationally purposeful activities succeed and graduate in a timely fashion, and at higher rates.

To facilitate those goals, the university in 2009 opened the Juniper-Poplar residence complex equipped with 1,050 beds and set up to create unique living-learning communities. Three state-of-the-art “smart” classrooms share common space with an in-house dining hall accommodating 350, a convenience store, a Starbucks, and the Smokehouse BBQ To Go restaurant.

The largest residence hall on campus with seven floors, it has operated at capacity since day one.

PATEL CENTER FOR GLOBAL SOLUTIONS

Solar panels on the roof heat water for use in the building. Captured rainwater and condensation from the air conditioning system run part of the waste plumbing. Some of the new carpet used to be old carpet.

From the 30,000-gallon recycled water tank below ground to lighting systems that turn off automatically as occupants leave a room, the Patel Center features a concept of sustainability that reflects the thrust of many of our global research, academic, and service programs that are housed in the Patel Building,” says Senior Vice President for Global Affairs and International Research Karen Holbrook.
TECHNOLOGY (SMART) LAB

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“Students have told us many times that what they want most, more than anything, are convenient study spaces available on their schedule,” says Garrison. “This project includes a high-tech expansion of our Learning Commons that meets their expressed needs 24 hours a day.”

With the input and endorsement of students, the USF Board of Trustees in 2009 implemented a Student Technology Fee to provide funds for just these kinds of investments, adds Garrison.

The Library’s main floor lobby area also got a transformation during 2012, to accommodate a new Job Shop, where students can readily access information and resources for finding a job on campus or in the surrounding community. It augments the Career Corner situated in the nearby Starbucks and stocked with useful information on career options. Both areas are centrally located extensions of the Career Center.

RECREATION CENTER

Users of USF’s Campus Recreation Center have been enjoying improved facilities since June 2011 and the completion of an 18-month makeover. The center gets more than half a million visits annually from students, faculty, and staff.

The Rec Center’s fitness area tripled in size to 21,000 square feet, needed to accommodate $1.2 million worth of new strength, conditioning, and cardio machines.

An advanced visualization center features two full basketball courts adaptable for multiple sports including badminton, volleyball, and dodgeball. Above, runners can escape the Florida sun by using the suspended, three-lane rubberized running track.

The new additions include a 3,000-square-foot room with cushioned wooden floors and an instructor’s stage for large group fitness classes. The center now provides seven fitness rooms for activities from kickboxing and spinning to yoga and Zumba, while plentiful, interactive television screens and full WiFi coverage keep students up to speed while they’re working up a sweat.

INTERDISCIPLINARY SCIENCES BUILDING

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ADVANCED VISUALIZATION CENTER

Another recent project enabled by the Student Technology Fee is the Advanced Visualization Center (AVC) in the Math/Physics Building—the only facility of its kind in the state.

Sixteen high-resolution stereoscopic 3D monitors with a screen resolution of over 20 million pixels, double the resolution of an IMAX screen, cover an entire wall. With them, students and faculty can create stunning visuals of large-volume data files for lectures, presentations, and projects. Photos, graphs, digital scans, illustrations, film footage, simulations, infographics, and other historical, statistical, and interactive media take on new interpretive power with the AVC.

Already, students and faculty have created 3D virtual replicas of important archeology and anthropology sites. Another group has produced a fly-through of a cell, taking viewers on a journey in, out, and around one of the fundamental building blocks of life.

“Visualization is an integral part of scientific research, as it allows us to gain new insights and share our discoveries” in new ways, says Howard Kaplan, visualization specialist. “Our students have expressed a lot of excitement at the hands-on experience with 3D animation and visualization.”
In October of 2009, the University of South Florida Foundation publicly launched the most ambitious fundraising campaign in its history, the $600 million USF: Unstoppable Campaign. With nearly $550 million raised as of summer 2012, the impact of this campaign on the University of South Florida will be felt for decades to come.

The priorities and strength of the USF: Unstoppable Campaign reflect the dynamic growth experienced by the University of South Florida, a robust institution that has influenced the success of the single largest fundraising effort in Tampa Bay's history. As the Campaign has continued, many corporations, foundations, and individual benefactors have stepped forward to support the continuing mission of the university.

The ongoing Campaign is built upon five pillars that express the overarching goals of USF's strategic planning document for the period of 2007-2012. These five pillars are: Faculty and Students, Interdisciplinary Research, Global and Community Impact, USF Health, and Athletics.

**Making a Difference for Students and Faculty**

In the case of support for students, the Campaign raised $66 million to create endowed and operating scholarships since its inception. Scholarship funding has been secured for need-based and merit-based awards, as well as Passport Scholarships promoting and facilitating education abroad. USF faculty also have benefited from the USF: Unstoppable Campaign, with more than $35 million raised for endowed chairs and professorships.

The USF Federal Credit Union established scholarships, too, for College of Medicine students, and another scholarship fund for students seeking education abroad experiences. In so doing, USFFCU further strengthened a relationship that began with the university's founding.

Looking beyond scholarships, one USF benefactor, Agilent Technologies Inc., ensured that USF electrical engineering students are using the latest Advanced Design System software. This software gift, valued in the tens of millions of dollars, has greatly strengthened both the abilities of our students and the value of their degrees. The impact of this relationship, established during the USF: Unstoppable Campaign, will be felt for generations.

**Making a Difference Here at Home and Around the Globe**

One of the founding gifts of the USF: Unstoppable Campaign came from Drs. Kiran C. and Pallavi Patel. Their gift to establish the Patel Center for Global Solutions is already beginning to create positive reverberations around the world. The Patel Center is focused on sustainability and creating new, more affordable, and effective ways to provide the world's population with clean water.

Dr. Patel and Kiran C. Patel in front of the USF: Unstoppable campaign logo.

Closer to home, a gift from the Bernard Osher Foundation has provided new hope for nontraditional learners who have overcome tremendous challenges to seek a college degree. Already, dozens of Tampa Bay residents have benefitted from the new Reentry Scholarship Program, putting within their dreams of a brighter tomorrow.

**Funding Research, Investing in the Future**

The USF: Unstoppable Campaign has dramatically changed the academic landscape at USF. To date, more than $273 million has been raised for academic program support. These gifts help to fuel a booming research enterprise, providing students and faculty with new resources and the latest technology.

A USF: Unstoppable Campaign gift to the Gus Stavros Center for Free Enterprise and Economic Education in the USF College of Education established the BB&t Academy of Free Enterprise Education. Among the new academy's many goals is enhancing the research capabilities of the Center and producing new K-12 curricula in this crucial 21st-century academic area.

**Transferring Healthcare**

The USF: Unstoppable Campaign has been and continues to be an integral facet of the ongoing transformation of USF Health. Total giving to USF Health has surpassed $160 million, led by the remarkable generosity of Carol and Frank Morsani. The Morsanis continued a lifetime of philanthropic support for USF Health by making an amazing $20 million gift to the College of Medicine in 2012. The newly christened USF Morsani College of Medicine will relocate to a new state-of-the-art campus facility made possible by the generosity of the Morsani family. The new building will be the second in the USF Health Campus built due to the Morsanis’ philanthropy, joining the Carol and Frank Morsani Center for Advanced Healthcare.

The Morsani College of Medicine is focused on developing a different kind of doctor. Helping achieve this goal is a Campaign gift from the Lehigh Valley Network, which created the Scholarly Excellence, Leadership Experiences, Collaborative Training (SE-LECT) program focused on developing emotional intelligence and rewarding students who promise to lead change in patient care.

**Winning Championships and Developing Champions**

The USF Athletics District has undergone a revolutionary re-development during the course of the USF: Unstoppable Campaign, with more than $37 million raised to support USF’s athletics enterprise. With new facilities dotting the landscape, the Bulls live, learn, and perform in an environment that is second to none. The results show on the field, on the court, and in the classroom, where USF Bulls have excelled.

BIG EAST championships in men’s soccer, men’s and women’s tennis, and women’s golf, along with an NCAA Tournament appearance for men’s basketball and a trip to the Women’s College World Series for the Bulls softball team are all highlights of the past five years. Each team has enjoyed new practice and playing facilities thanks in part to individual acts of generosity during the USF: Unstoppable Campaign.

**Still Unstoppable**

The USF: Unstoppable Campaign’s impact on the university is measurable and undeniable. And it’s not finished yet. Under the capable leadership of Campaign Chair Les Muma, the USF Foundation will continue the campaign through the 2012-2013 fiscal year. When we gather then to measure the overall success of the Campaign, it will be to celebrate the greatest philanthropic achievement in USF Foundation history.
PERFORMANCE METRICS

USF was classified by the Carnegie Foundation for the Advancement of Teaching as a

RESEARCH UNIVERSITY

VERY HIGH RESEARCH ACTIVITY

in 2006; it has remained in this elite category of 73 public universities ever since

USF was named one of the nation’s top 100 public universities by U.S. News & World Report in 2012

2012 HONOR ROLL

of the nation’s best online programs

USF earns a place among The Princeton Review’s Best 376 Colleges, 2007–2012

6 IN A ROW

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THESE IMPORTANT RECOGNITIONS HELP ENHANCE USF’S NATIONAL REPUTATION THROUGH ACKNOWLEDGING THE HIGH CALIBER OF SCHOLARLY ACHIEVEMENTS SO CHARACTERISTIC OF A MAJOR RESEARCH UNIVERSITY.”

Provost and Executive Vice President Ralph Wilcox

The Chronicle of Higher Education reports

3 USF DOCTORAL PROGRAMS in Criminology, Communication Sciences, and Aging Studies in the top 10 nationally

INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY—8TH

FINE ARTS: PRINTMAKING—20TH

PUBLIC HEALTH—21ST

CRIMINOLOGY—22ND

AUDILOGY—24TH

LIBRARY & INFORMATION SCIENCES—29TH

REHABILITATION COUNSELING—30TH

SPEECH-LANGUAGE PATHOLOGY—40TH

INDUSTRIAL ENGINEERING—50TH

The Princeton Review and Entrepreneur magazine ranked USF’s

GRADUATE ENTREPRENEURSHIP PROGRAM #19 NATIONALLY in 2011

FUNDING PER FULL-TIME EQUIVALENT (FTE) STUDENT


$7,614 $6,951 $5,660 $5,708 $5,077

$742 $934 $821 $905 $1,014

$3,297 $3,388 $3,558 $4,089 $4,453

$0 $0 $744 $474 $0

$11,653 $11,273 $10,783 $11,175 $10,544

$3,297 $3,388 $3,558 $3,963 $4,453

$11,653 $11,273 $10,783 $11,049 $10,544

$18,631,075 $17,967,815 $17,871,933 $17,063,333 $13,879,832

$513,486 $352,411 $356,213 $358,192 $368,234

The University’s Moody’s rating over time:

2006–07: a1

2007–08: aa3

2008–09: aa2

2009–10: aa2

2010–11: aa2

2011–12: aa2

Moody’s rating over time:

2006–07: a1

2007–08: aa3

2008–09: aa2

2009–10: aa2

2010–11: aa2

2011–12: aa2

INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY—8TH

FINE ARTS: PRINTMAKING—20TH

PUBLIC HEALTH—21ST

CRIMINOLOGY—22ND

AUDILOGY—24TH

LIBRARY & INFORMATION SCIENCES—29TH

REHABILITATION COUNSELING—30TH

SPEECH-LANGUAGE PATHOLOGY—40TH

INDUSTRIAL ENGINEERING—50TH
The University of South Florida is a high-impact, global research university dedicated to student success. USF is classified by the Carnegie Foundation for the Advancement of Teaching in the top tier of research universities, a distinction attained by only 2.2 percent of all institutions of higher education, and ranks 50th in the nation for federal and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. The University of South Florida is accredited by the Southern Association of Colleges and Schools (SACS) Commission on Colleges to award baccalaureate, master's, doctoral, and professional degrees, with the most recent affirmation of that accreditation occurring in 2005.

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The University of South Florida's Moody rating over time:
- 2006-07: A1
- 2007-08: A3
- 2008-09: A2
- 2009-10: A2
- 2010-11: A2

In an effort to reflect the environment, this book was printed on wind-powered presses, on paper made from a combination of sustainably forested paper and post-consumer waste.

The University of South Florida

FINANCIAL SUMMARY

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The Chronicle reports the top 50 fine arts: printmaking—20th criminology—22nd audiology—24th Report library & information sciences—29th speech-language pathology—46th 's 2012 rankings of America's USF leadership has consistently received high marks from Moody's and Standard & Poor's for its strategic and disciplined financial management. Our AA-Stable Outlook credit rating not only reflects strengths in student demand, our balance sheet, and various metrics, but also confidence in senior management to successfully steer us through challenges on the road to greater achievement.

The Princeton Review Entrepreneur magazine 2011 USF leadership has consistently received high marks from Moody's and Standard & Poor's for its strategic and disciplined financial management. Our AA-Stable Outlook credit rating not only reflects strengths in student demand, our balance sheet, and various metrics, but also confidence in senior management to successfully steer us through challenges on the road to greater achievement.

The University of South Florida

The University of South Florida
Despite the economic uncertainty and its continuing transformation of public higher education, our leading objective was constant—ensuring our students' success. Intellectual talent is our primary asset, and we remain committed to recruiting, supporting, and retaining the best, brightest, and most creative minds from around the world.

Again, review the results: A rare double distinction for very high research activity and intense community engagement. A growing reputation as an "Up-and-Coming" university and an international destination for global discussions on the economy, the environment, energy, and other important issues. Expanded educational partnerships with neighbors near and far. Swelling participation in study abroad. Increasing numbers of students receiving top-tier scholarships. More competitive and successful graduates—and more of them than ever before—all while educating a most diverse socioeconomic cross section of our society.

It's all come about because of strong and visionary leadership, thoughtful planning, the disciplined pursuit of our goals, and creative execution. Because of the generous support of the many individuals, businesses, and organizations that share our mission and our passion. And because of our commitment to transparent accountability, setting high performance benchmarks, and expending the energies to achieve, track, and document them.

USF's tradition for innovation has been vital, as well. Innovation is in our collective DNA, and we'll need it as we wrestle to redefine higher education amid numerous challenges.

With its recent ascension in the ranks of the nation's best and fastest growing public research universities, USF is positioning itself strongly as an innovative leader in fields from engineering and entrepreneurship to medicine and marine science. Grammy nominations and international festival honors add luster to its academic reputation, and raise the stakes accordingly.

The continuing regional and global economic turmoil has imposed a new level of critique upon higher education, often criticized for its cost and questioned about its relevance. Let's celebrate our successes of the past five years, and then quickly turn our attention to the next step on our bold path to the future.

President Genshaft has affirmed our shared commitment to accelerating the student success agenda. Provost Wilcox has assembled the academic talent and leadership teams necessary to provide our students with a world-class education for the 21st century. Transforming Higher Education for Global Innovation, Strategic Plan 2007–2012 has established the trajectory. And goal-setting for the next exciting strategic plan is already underway.

I look forward to sharing the outcome of that conversation with you, and to witnessing USF's continuing rise in stature as a premier research university, dedicated to making a difference in the lives of our students, as well as in our community, our state, our nation, and the world.

John B. Ramil, Chair
Board of Trustees