Adding value to curricula, programs and infrastructure (continued)

USC Michelson Center for Convergent Bioscience

Opened in 2017, it is one of just a few facilities in the world dedicated to the convergence of research in engineering, physical and life sciences.

23 New Internal Research Centers

- The Center for Advanced Manufacturing (CAiM)
- USC Michelson Center for Convergent Bioscience
- Center for Advanced Respiratory Characterization and Forecasting
- Robotics and Autonomous Systems Center (RASC)
- Aria Climate and Water Research Center (ACWRC)
- Center for Peptide and Protein Engineering (CPE)
- Nexus Center
- Sleep Health Using Biomeasuring (SLEEPBH)
- Center for Intelligent Environments (CERBENTS)
- Center for Knowledge-Powered Interdisciplinary Data Science (KIPIDS)
- Center for Systems and Controls
- The Center for Human-Applied Reasoning and the Internet of Things (CHRINT)
- Center on Machine Learning (MaLo)
- Communication VBITEX Center
- Center on Behavioral and Mental Health
- Center of Data, Algorithms, and Systems for Health (CADASH)
- Center for AI in Society (CAiS)
- Center for Cyber-Physical Systems and the Internet of Things (CPSIoT)
- Center for Quantum Information Science and Technology
- Decision and Ethics Center for Interdisciplinary Decisions and Ethics (DECID\CEO)
- TCC Institute for Emissions Reduction in Marine Diesel Engines
- USC Center for Interactive Smart Optimal Technologies (Cisto)
- USC-Lockheed Martin Quantum Computing Center

Generating Solutions to Global Challenges

600 John O’Brien Nanofabrication Lab

By focusing on cellular, molecular and quantum engineering and the natural sciences, the Center’s interdisciplinary team of medical researchers, scientists and engineers is collaborating to speed the development of new drugs, critical diagnostics and biomedical devices from bench to bedside.

A world-class facility for nanotechnology, including all of the tools needed to fabricate and characterize structures and devices, of similar size to DNA and viruses, from a wide range of materials graphs, cadmium and faculty the ability to develop novel biomedical diagnostics and implantable devices.

Advanced Personalized Learning

The newly created K-12 STEM Center aims to inspire, inform, and impacts underserved K-12 students. In 2020 alone, over 12,000 students have been served through programs, research and outreach partnerships involving the USC, Viterbi, faculty, and Viterbi Ph.D. students and hundreds of Viterbi undergraduates representing over 20,000 hours of community volunteering.

Driving Innovation, Diversity and Entrepreneurship

More student diversity: 50% of the 2019 entering freshmen are women compared to 30% in 2011. 24% of our students come from underrepresented groups.

Fostering innovation and entrepreneurship in Silicon Beach and beyond through:

- Viterbi Student Innovation Institute (VSi2)
- Viterbi Startup Garage (VSg)
- Maseeh Entrepreneurship Prize Competition (MEPC)
- Min Family Engineering Social Entrepreneurship Challenge
- USC Games, No. 1 ranked game program in the nation
- USC Stevens Center for Innovation

Total Campaign

$500,511,575

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<th>Donor Type</th>
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<td>Other Organizations</td>
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Over 30 successful student and faculty start-ups launched and supported since 2010

A Mindset of Growth
Fulfilling the Unlimited Potential of Engineering Through the Excellence of Our People

59 Endowed scholarships established

Endowed Chairs & Professors

- Kenneth C. Dallenberg Early Career Chair
- Steven & Kathryn Sample Chair in Engineering
- Chan Soon-Shing Chair
- Stephen Schraft Early Career Chair in Civil and Environmental Engineering
- William E. Leventhal Professor in Engineering
- Andrew & Ena Viterbi Early Career Chair I
- Andrew & Ena Viterbi Early Career Chair II
- Andrew & Ena Viterbi Early Career Chair III
- Andrew & Ena Viterbi Early Career Chair IV
- Andrew & Ena Viterbi Early Career Chair V
- Ena Viterbi Center for Converging Engineering and Material Sciences
- The Louise L. Dunn Endowed Professorship of Engineering
- A.Z. “Bud” Bakerhorn Endowed Chair
- Dr. Tah Fo’Yi Early Career Chair
- Niki and Max Nikias Chair in Engineering
- David M. Wilson Early Career Chair
- Dr. Karl Jacob Jr. and Karl Jacob III Early Career Chair
- Shelly and Ofer Namirsky Chair in Convergent Bioscience
- Shih-Shian-Ping Song Yang Early Career Chair in Civil and Environmental Engineering
- Kelmer Family Early Career Chair
- The Michael and Linda Kanfont Endowment for Executive Directorship of Information Sciences Institute

Endowed Faculty Positions Established since 2020

scholars now fulltime faculty hires since 2010

Academy of Arts, Humanities & Technical Achievement

Members of the National Academy of Inventors

Endowed Faculty Positions Established since 2020

Academy of Arts, Humanities & Technical Achievement

Members of the National Academy of Inventors

9 new corporate fellowships created

Google Fellowship
Amazon Alexa Fellowship
Facebook Fellowship
Hertz Foundation Fellowship
Microsoft Research Ph.D. Fellowship

New fulltime faculty hires since 2010

USC Viterbi’s Grand Challenges Scholars program gives undergraduates students the unique opportunity to drive their educational experiences towards discovering, exploring, and potentially solving one of the NA Engineering challenges. Students are paired with faculty mentors, recognizing the nation’s need for engineers who possess a diverse set of skills and perspectives.

46 students graduated as Grand Challenges Scholars in May, 2019

The philanthropic support of education, and notably higher education in private schools, is absolutely necessary for them to fulfill their mission, in our exponentially changing world. In 2010, as part of the University of Southern California’s campaign Fast Regna Trojae, the USC Viterbi School of Engineering launched its fundraising initiative with the goal of generating gifts and pledges totaling $300M by the end of the campaign. This initiative came on the heels of another initiative, that raised $500M between 2001 and 2006. This report is an anatomy of the recent campaign highlighting how the funds raised are helping USC Viterbi advance its mission.

The school’s mission of Engineering - is encapsulated in the following four pillars: 1. Be a global attractor of talent (faculty, students and staff) in engineering education and research while providing an inclusive environment and culture in which to flourish. 2. Constantly lead and innovate in new programs (curricula and infrastructure) that add new value for our constituencies. 3. Lead to advance solutions to world challenges, by providing global thought leadership, from energy and sustainability to security and infrastructure, to health and medicine, and to scientific and technological discovery. 4. Be the catalyst for technological innovation, best practices for engineering education and research, and outreach to all of our constituencies, including K-12, thus fueling the economic growth of Los Angeles, Southern California, the United States, and the world.

However, our ability to educate engineering students regardless of their financial means; to attract K-12 students to engineering; regardless of their demographics; to retain talented faculty and staff, despite fierce competition from high-paying corporations in the private sector; and to advance human-centric technology solutions to increasingly demanding challenges and unintended consequences, requires constant philanthropic support.

Even as we have given freely to those in need in our community and beyond, the USC Viterbi School of Engineering has been fortunate to be sustained by the affection and philanthropy of thousands of individual donors and entities, from alumni to friends, to foundations and to corporations. Such selfish contributions and faith in the school’s mission have helped our school thrive in times of change and become a leader in engineering education and research. We are immensely proud to them. And we ask them to continue being a time, giving and faithful partner, as we look to a future where change is not just the only constant, but also a future in which change can be driven for the benefit of society, and to engineering a better world for all humanity.