

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.



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.

23 New Internal Research Centers

- The Center for Advanced Manufacturing (CAM)
- USC Michelson Center for Convergent Bioscience
- Center for Advanced Reservoir Characterization and Forecasting
- Robotics and Autonomous Systems Center (RASC)
- Arid Climate and Water Research Center (AWARE)
- Center for Peptide and Protein Engineering (CPPE)
- Nexus Center
- Sleep Health Using Bioengineering (SLEEPHUB)
- Center for Intelligent Environments (CENTIENTS)
- Center for Knowledge-Powered Interdisciplinary Data Science (CKIDS)
- Center for Systems and Controls
- The Center for Human-Applied Reasoning and the Internet of Things (CHARIOT)

- Center on Machine Learning (MASCLE)
- Communication VERTEX Center
- Center on Behavioral and Mental Health
- Center of Data, Algorithms, and Systems for Health (DASH)
- Center for AI in Society (CAIS)
- Center for Cyber-Physical Systems and the Internet of Things (CCI)
- Center for Quantum Information Science and Technology
- Decisions and Ethics Center for Interdisciplinary Decisions and Ethics (DECIDE)
- TCC Institute for Emissions Reduction in Marine Diesel Engines
- USC - Chevron Center for Interactive Smart Oilfield Technologies (CiSoft))
- USC - Lockheed Martin Quantum Computing Center

Generating Solutions to Global Challenges

600

Number of wildlife parks globally that plan to use AI created by the Center for Artificial Intelligence in Society (CAIS) to protect endangered animals.

John D. O'Brien Nanofabrication Lab



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 giving students and faculty the ability to develop novel biomedical diagnostics and implantable devices.

Advanced Personalized Learning



The newly created K-12 STEM Center inspires, informs, and impacts underserved K-12 students. In 2019 alone, over 12,000 students have been served through programs, research and strategic partnerships involving 70+ Viterbi faculty, 150+ 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.

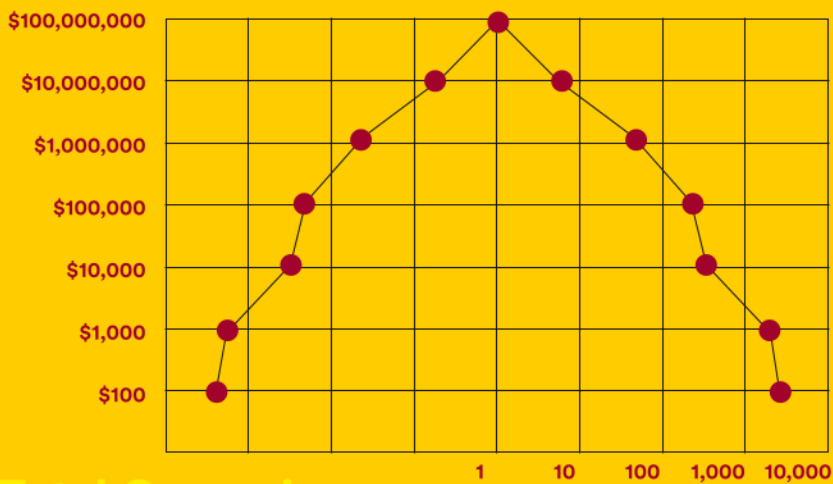
Fostering innovation and entrepreneurship in Silicon Beach and beyond through:

- 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 games program in the nation
- USC Stevens Center for Innovation

over 30

successful student and faculty start-ups launched and supported since 2010

Log Chart of Campaign Giving

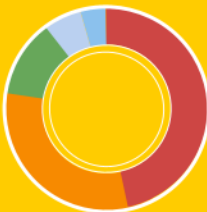


Total Campaign

Running Sum of Total Donations

Total Sum Raised

\$500,511,575



Donor Type	Subtotal	% of Total
Corporations	\$235,549,208	47.06 %
Other Individuals	\$150,310,365	30.03 %
Board of Councilors	\$66,508,234	13.29 %
Foundations	\$30,300,606	6.05 %
Other Organizations	\$17,843,162	3.56 %





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 \$500M by the end of the campaign. This initiative came on the heels of another initiative, that raised \$300M between 2001 and 2008. 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 all 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 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/or unintended consequences, requires constant and unabated sources of 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 selfless 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 grateful to them. And we ask them to continue being a close, 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.

Yannis C. Yortsos

Yannis C. Yortsos
Dean, USC Viterbi
School of Engineering

Fulfilling the Unlimited Potential of Engineering Through the Excellence of Our People

59 Endowed scholarships established
(since 2010)



The only school in the world with a large-scale quantum computer

Home of the first student group to send a rocket to space

10 MIT TR 35
since 2010 (15 total)

3 (since 2010)
Academy Awards for Technical Achievement



19 Endowed Faculty Positions Established since 2010

10 since 2010 (35 total)
full time and affiliated faculty members of one or more National Academies (NAE, NAS, NAM)

9 Members of the National Academy of Inventors
since 2010 (13 total)



9 new corporate fellowships created

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

Chevron Energy Fellowship
L'Oreal for Women In Science Fellowship
Northrop Grumman Fellowship
AT&T Foundation Fellowship



2011
USC Lockheed
Martin Quantum
Computation Center



2012
Ming Hsieh Institute for
Research on Engineering-
Medicine for Cancer



2014
Epstein Family
Engineering Plaza



2016
Lawrence J.
Ellison Institute
for Transformative
Medicine



2017
USC Michelson
Center for Convergent
Bioscience



2018
Baum Family
Maker Space

Endowed Chairs & Professorships

- Kenneth C. Dahlberg Early Career Chair
- Steven & Kathryn Sample Chair in Engineering
- Chan Soon-Shiong Chair
- Stephen Schrank Early Career Chair in Civil and Environmental Engineering
- William E. Leonhard Professor in Engineering
- Andrew & Erna Viterbi Early Career Chair I
- Andrew & Erna Viterbi Early Career Chair II
- Andrew & Erna Viterbi Early Career Chair III
- Andrew & Erna Viterbi Early Career Chair IV
- Andrew & Erna Viterbi Early Career Chair
- Ray Irani Chair in Chemical Engineering and Material Sciences
- The Louise L. Dunn Endowed Professorship of Engineering
- A.V. "Bal" Balakrishnan Endowed Chair
- Dr. Teh Fu Yen 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 Nemirovsky Chair in Convergent Bioscience
- Dr. Shiao-Ping Siao Yen Early Career Chair in Civil and Environmental Engineering
- Kellner Family Early Career Chair
- The Michael and Linda Keston Endowment for Executive Directorship of Information Sciences Institute

162
new fulltime faculty hires since 2010

Adding Value to Curricula, Programs and Infrastructure

iPodia Alliance - Classrooms Without Borders

Students from 14 universities in 4 continents can now learn together in USC Viterbi-led iPodia classrooms



163 NAE Grand Challenges Scholars
(since 2010)
More than any engineering school in the nation



USC Viterbi's Grand Challenges Scholars program gives undergraduate students the unique opportunity to drive their educational experiences towards discovering, exploring, and potentially solving one of the NAE Grand Challenges earning recognition from USC and the National Academy of Engineering.



46 students graduated as Grand Challenges Scholars in May, 2019