

MASTER OF SCIENCE IN

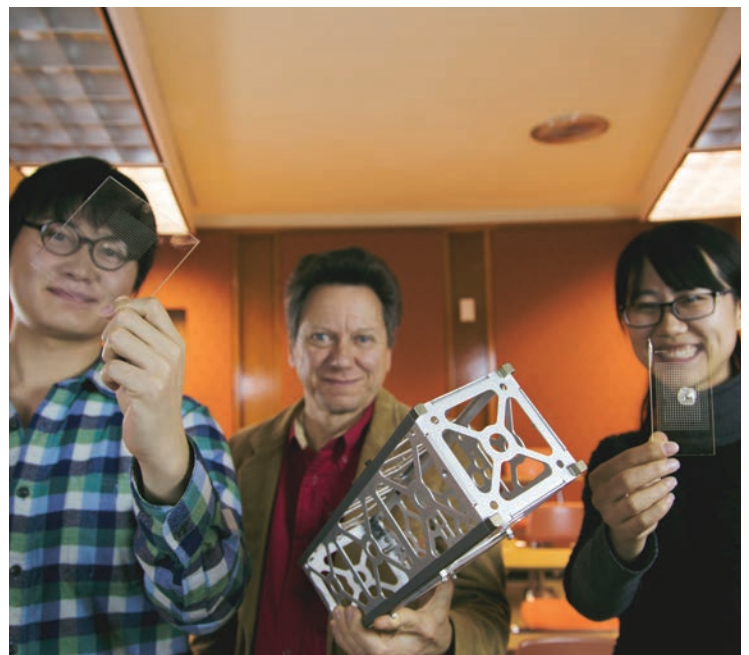
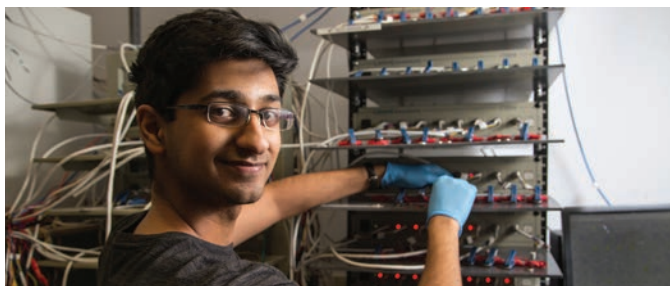
COMPUTER & SYSTEMS ENGINEERING

ECE.UH.EDU

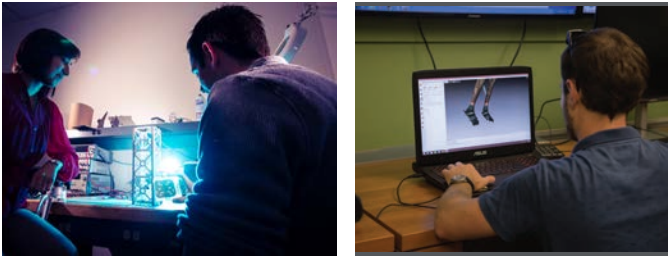
DESIGNING THE DIGITAL SYSTEMS OF TOMORROW

COMPUTER & SYSTEMS ENGINEERING AT UH

Computer & systems engineering is an interdisciplinary program that provides specialization in computer engineering. Graduates of the computer & systems engineering program will be prepared to design state-of-the-art hardware and software systems that include computing, communications and networking, control functions, sensing, signal processing and much more.



Cullen College of Engineering
UNIVERSITY OF HOUSTON



WHY THE UNIVERSITY OF HOUSTON?

Computer & systems engineering graduate students at the University of Houston have the opportunity to work with and learn from faculty recognized as world leaders in their fields. These include Fellows of the IEEE and the National Academy of Inventors, multiple winners of the National Science Foundation (NSF) CAREER Awards, and investigators in major research projects supported by NASA, the Defense Advanced Research Projects Agency, the National Institutes of Health, the Advanced Research Projects Agency - Energy and the NSF.

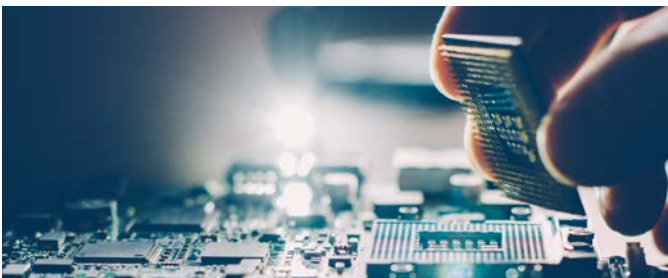
Graduate students can also take full advantage of the college's location in Houston. Many department researchers work closely with firms in the energy industry, allowing them to address the sector's most pressing needs. Faculty also have ongoing collaborations with physicians and researchers at Texas Medical Center institutions, enabling them to bring advances from the lab to the clinic as quickly as possible.

Alumni of the computer & systems graduate program work locally and overseas for Halliburton, Schlumberger, Hewlett Packard, CenterPoint Energy, Burns & McDonnell, as well as other medical, telecommunications, construction and petrochemical companies.

WHAT TYPES OF GRADUATE DEGREES DO YOU OFFER IN COMPUTER & SYSTEMS ENGINEERING?

The UH Cullen College of Engineering offers an M.S. degree in computer & systems engineering. Applicants can have a B.S. in any one of the following fields: Electrical Engineering, Computer Engineering, Computer Science or a degree in any engineering field or Quantitative Science. Depending on previous background, a set of prerequisites might have to be satisfied before the student starts the graduate program in CSE. A student can complete the degree on a full or part time basis and has the option of doing a thesis or not. A full description of the CSE Program Requirements can be found here:

www.ece.uh.edu/graduate/degree-programs



FACULTY EXPERTISE & RESEARCH ENTERPRISE

Our award-winning faculty are constantly performing cutting-edge research, and are always seeking hard-working graduate researchers to join them in their labs.

Available research areas in the Electrical and Computer Engineering Department include devices and materials, imaging and signal processing, data, computing and computer systems, photonics, plasmonics, electromagnetics and optoelectronics, sensors and bioengineering, and power and energy systems.

To view a full list of faculty by research area, please visit:

www.ece.uh.edu/research/faculty-expertise

FACILITIES & LABORATORIES

Housed in Engineering Buildings 1 and 2, Electrical and Computer Engineering laboratories are a hive of activity and innovation, from building drones to exoskeletons to integrated circuits, imaging technologies, and computing devices and models. Some noteworthy labs include:

- Advanced Imaging and Sensing Lab
- Computational Medicine Lab (CML)
- Integrated Circuits and Microsystems Research Lab
- Laboratory for Noninvasive Brain-Machine Interface Systems
- Wireless Networking, Signal Processing and Security Lab

Learn more at: www.ece.uh.edu/research/laboratories-facilities

CENTERS & CONSORTIA

Collaborations with industry are both internal to UH and Engineering and external research enterprises are a tenet of our Department. The faculty lead and participate in the following centers and consortia:

- IUCRC BRAIN Center
- Center for Electromagnetic Compatibility
- Center for Neuro-Engineering and Cognitive Science
- Center for Integrated Bio and Nano Systems
- Nanosystem Manufacturing Center
- The Center for Electromagnetic Compatibility Industry/University Cooperative Research Center
- The Center for Subsurface Modeling and Characterization Consortium (CSMC)
- Electric Power Analytics Consortium
- Power Electronics, Microgrids and Subsea Electrical Systems Center

FOR MORE INFORMATION

For more information on eligibility and admissions requirements, please visit www.ece.uh.edu/graduate/degree-programs