

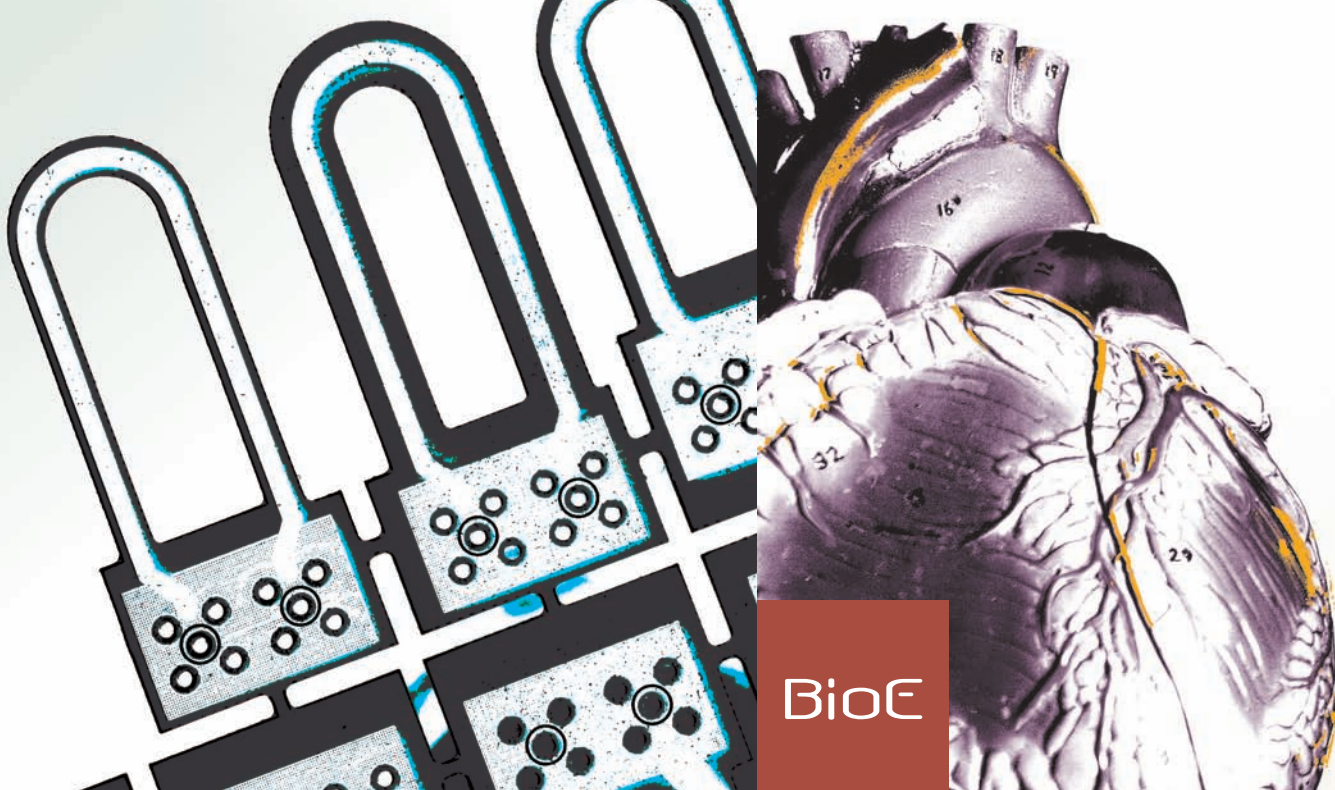


The Cullen College of Engineering offers 23 graduate programs. To learn more, visit www.egr.uh.edu/academics/?e=grad.

The University of Houston Cullen College of Engineering is made up of programs highly ranked among public engineering institutions in the United States. Our superb, world-class faculty includes eight members of the National Academy of Engineering. Graduate students perform research under the direction of faculty members who consistently win awards and honors for their work. UH is located in one of the largest collections of aerospace and petrochemical industries in the world, providing graduate students excellent employment and training opportunities. The cost of living is also one of the lowest for a major city in the United States. There are large communities of foreign-born residents, making acclimation easy for foreign students who join our program.

GRADUATE STUDY

UNIVERSITY OF HOUSTON CULLEN COLLEGE OF ENGINEERING



BioE

www.egr.uh.edu/bioe/grad

BIOMEDICAL ENGINEERING

- Six biomedical engineering faculty members plus 20 additional engineering and life science faculty directly involved in biomedical engineering research
- UH is 10 minutes from the Texas Medical Center, the world's largest medical complex, giving opportunities for collaborative research, including the university's 30-year agreement with The Methodist Hospital. UH and the Texas Heart Institute are also collaborating on genetically engineered cartilage cell coated stents and artificial heart pumps.
- World-class facilities include the Biomedical Optics Laboratory that focuses on protein biosensing and tissue functional imaging, and the Texas Learning and Computation Center that is available for high performance biomedical engineering computations.
- The UH Science and Engineering Research and Classroom Complex features five floors of lab space that will accommodate 40 research labs.

CONTACT

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www.egr.uh.edu

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www.chee.uh.edu/graduate

CHEMICAL ENGINEERING

- 77 graduate students, 21 full-time and adjunct faculty
- Ranked No. 18 in National Research Council ranking of chemical engineering doctoral programs
- Focused research in biomolecular, nanomaterials, reaction, environmental and energy engineering. State-of-the-art laboratory and computing facilities
- Research funded by NSF, DOE, NIH, NASA, DOD, NIST, Sematech, industry

CONTACT

Dr. Vincent Donnelly, Director of Graduate Studies
Department of Chemical Engineering
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CHE



INTERDISCIPLINARY PROGRAMS

www.egr.uh.edu/me/graduate/aerospace/

AEROSPACE ENGINEERING

- Offers master's (thesis and non-thesis) and Ph.D. degrees in aerospace engineering, with research focused on aerospace structures, controls, aerodynamics, heat transfer and aerospace materials
- Research funded by NASA, the National Science Foundation, the Department of Defense, and the State of Texas. The program supports the strong aerospace companies in Houston and the NASA Johnson Space Center.

www.egr.uh.edu/ece/graduate/?e=computersys

COMPUTER & SYSTEMS ENGINEERING

- Offers master's degrees (thesis and non-thesis) focused on computer engineering and computer controlled systems
- Research opportunities in hardware design, high performance computing, and digital and optimal control
- Research funded by the NASA Johnson Space Center, the Department of the Army, the National Science Foundation and the State of Texas.

PROG

CE



www.egr.uh.edu/ece/graduate/

ELECTRICAL ENGINEERING

- 159 master's and 90 Ph.D. students, 31 tenured and tenure-track faculty, three research faculty, and 25 joint/adjunct faculty appointments
- Strong research programs with \$4.5M annual research expenditures by core faculty in all areas of ECE, including applied electromagnetics, bioengineering, microelectronics, computer engineering, control systems, nanotechnology, neuro-engineering, opto-electronics, power engineering, sensor design, signal and image processing, telecommunications and well logging
- M.E.E., M.S.E.E., and Ph.D. programs offered in areas listed above, with special interdisciplinary programs available. An accelerated bachelors to Ph.D. program is also available for students with outstanding credentials
- Ranked 54th out of 134 top research-extensive doctoral programs in the U.S. according to the Faculty Scholarly Productivity Index by Academic Analysis, LLC.
- Interdisciplinary research centers including the Nanosystem Manufacturing Center and the Center for Neuroengineering and Cognitive Science

CONTACT

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EE



MatE

www.egr.uh.edu/me/graduate/?e=materials

MATERIALS ENGINEERING

- 20 graduate students, eight full-time and adjunct faculty
- Research projects lead to commercialization of new science
- Research projects funded by the State of Texas, U.S. Department of Energy, the National Science Foundation and NASA
- Strong research cooperation with UH science and engineering centers

CONTACT

Dr. Ken White, Graduate Director
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www.egr.uh.edu/cive/envgrad/

ENVIRONMENTAL ENGINEERING

- 40 graduate students, four full-time faculty and two adjunct faculty
- Offers master's (thesis and non-thesis) and Ph.D. degrees in environmental engineering
- Opportunities for research in membrane filtration, ion exchange, adsorption, bioremediation, atmospheric particulates, surface and ground water hydrology and contaminant transport, soil treatment, natural attenuation and surface water quality
- A nationally-recognized program with award-winning faculty and research facilities that are among the best in the country

CONTACT

Dr. Dennis Clifford, Environmental Engineering Graduate Director
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EnvE

www.egr.uh.edu/me/graduate

MECHANICAL ENGINEERING

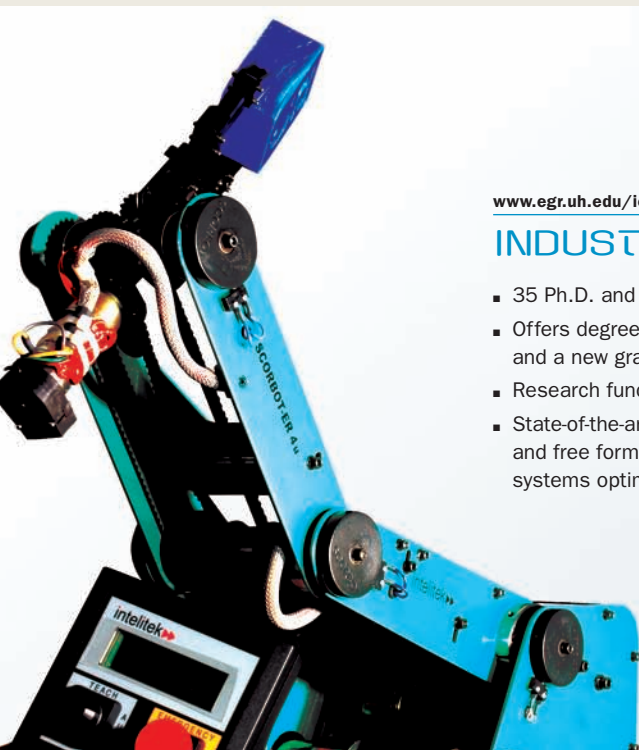
- 107 graduate students, 24 full-time and adjunct faculty
- Ranked No. 33 of more than 150 mechanical engineering programs in the latest American Council of Research ranking
- Research funded by the National Science Foundation, NASA, Army Research Office, Navy Office of Naval Research, Air Force Office of Sponsored Research, Ford Motor Co. and Cummins Corporation, among others
- State-of-the-art laboratory and computing facilities in all areas of mechanical engineering

CONTACT

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www.egr.uh.edu/ie/graduate

INDUSTRIAL ENGINEERING

- 35 Ph.D. and 125 master's students, 18 full-time and adjunct faculty
- Offers degrees leading to M.I.E., M.S.I.E. and Ph.D. in industrial engineering and a new graduate program with concentration in enterprise engineering
- Research funded by DHS, NIJ, TxDot and U.S. Coast Guard
- State-of-the-art instructional and research laboratories including design and free form fabrication, enterprise logistics, ergonomics and safety, systems optimization & computing and RFID.

CONTACT

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IE



PE

www.chee.uh.edu/petroleum

PETROLEUM ENGINEERING

- 12 instructors from industry, 61 graduate students from eight countries
- Offers master's (thesis and non-thesis) degrees in petroleum engineering with focus on exploration and production
- World-class instruction by well-known experts with emphasis on day-to-day industry practices
- Research in enhanced oil recovery, advanced drilling techniques, reservoir modeling and natural gas engineering
- Class times convenient for practicing professionals

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