

GRADUATE PROGRAM

Biomedical Engineering

<http://engineering.uci.edu/dept/bme/graduate>



The goal of the UCI biomedical engineering program is to train students for 21st century jobs in the biomedical and biotechnology industries, health care professions and academia. Located at a world-class research university deep in the heart of the nation's biomedical device and technology capital, we are uniquely positioned to build upon our existing research strengths.

DEGREES OFFERED

M.S. & Ph.D.

HIGHLIGHTS

- Highly interdisciplinary culture
- State-of-the-art research center and facilities
- Centrally located in the heart of Southern California's biomedical device industry (more than 300 medical device companies)

RESEARCH FOCUS AREAS

- Biophotonics
- Biomedical Micro/Nanoscale Devices
- Tissue Engineering
- Biomolecular/Genetic Engineering
- Cardiovascular
- Neuroengineering
- Biomedical Computational Technologies

AFFILIATED FACILITIES

- Beckman Laser Institute
- Laboratory for Fluorescence Dynamics
- Center for Advanced Design and Manufacturing of Integrated Microfluidics
- Edwards Lifesciences Center for Advanced Cardiovascular Technology
- Center for Complex Biological Systems
- Sue & Bill Gross Stem Cell Research Center
- Integrated Nanosystems Research Facility
- Reeve-Irvine Research Center
- UCI Chao Family Comprehensive Cancer Center
- Gavin Herbert Eye Institute
- Bio-Organic Nanotechnology Lab

REQUIRED BACKGROUND

Because of its interdisciplinary nature, biomedical engineering attracts students with a variety of backgrounds. The requirements for admission are tailored to students who have a bachelor's degree in an engineering, physical science or biological science discipline with a grade point average of 3.20 or higher in their upper-division coursework. The minimum coursework requirements are six quarters of calculus through linear algebra and ordinary differential equations, three quarters of calculus-based physics, three quarters of chemistry and two quarters of biology. Students without a physics, chemistry, or engineering undergraduate degree may be required to take additional relevant undergraduate engineering courses during their first year in the program; any such requirements will be specifically determined by the BME graduate committee on a case-by-case basis and will be made known to the applicant at the time of program acceptance.

The recommended minimum combined verbal and quantitative portion of the GRE is 310, or a minimum MCAT score of 508. A minimum score of 94 on the Test of English as a Foreign Language (TOEFL iBT) is recommended of all international students whose native language is not English. All applicants must submit three letters of recommendation.