Program Overview:
The Professional Master of Engineering (M.Eng) program’s Biomedical Engineering Concentration, also known as BioENGINE (BioEngineering, Innovation, & Entrepreneurship), is designed to provide rigorous and practical hands-on team-based training in biomedical innovation, entrepreneurship / intrapreneurship and commercialization. BioENGINE will train students through experiential learning to become experts and leaders in developing biomedical devices and technologies.

Program Features:
- 3-course sequence focused on innovating, building, and launching a medical technology business.
- Job searches, industrial networking, career development facilitated by M.Eng staff.
- Choice of 6 technical electives on timely, relevant biomedical engineering topics, taught by experts in the field.
- Design-build-test new medical technology, with faculty and industry mentoring, via comprehensive Capstone design sequence.
- Interact and network with industry through symposiums, lectures, and design projects.
- Receive Master of Engineering degree in 9-15 months.

For more information and to apply:
meng.eng.uci.edu
### Engineering Leadership (3 quarters/12 units):
Topics include: product ideation, design, manufacturing, and marketing, writing proposals and business plans, successful team building, project management, revenue generation, intellectual property, and regulatory issues.

### Concentration Courses (select 6):
- BME 210P Molecular and Cellular Engineering
- BME 212P Cardiovascular Tissue Engineering
- BME 220P Sensory Motor Systems
- BME 234P Neuroimaging Data Analysis
- BME 262P Microimplants
- BME 295P Nanotechnology for Biomedicine
- BME 295P Bio-spectroscopy
- BME 295P Neural Time Series
- BME 295P Coding in the Brain

- BME 211PMicroscale Tissue Engineering
- BME 221P Quantitative Physiology: Organ Transport Systems
- BME 233P Dynamic Systems in Biology and Medicine
- BME 238P Spectroscopy and Imaging of Biological Systems
- BME 240P Intro Clinical Medicine for Biomedical Engineering
- BME 251P Engineering Medical Optics
- BME 260P Microfluidics and Lab-on-a-Chip
- BME 295P Cardiovascular Device Technologies
- BME 295P Ophthalmology Biomedical Engineering

### Capstone Project (*2 quarters/8 units required):
Hands-on design project where teams of students, mentored by faculty and industry representatives, may:
- Survey unmet needs in the medical technology business space
- Define FDA design control requirements and product specifications
- Explore market entry strategies and commercialization
- Determine optimal technical solution
- Fabricate and test a prototype in UC Irvine’s world class facilities and laboratories
- Present project development results at the Device Design Symposium at UCI Beall Applied Innovation
- Option to extend projects (summer or fall)

More information: meng.eng.uci.edu
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