Biomedical Engineering **MASTER OF ENGINEERING**



Advancing Patient Care Through New Technology

32 credits 2 semesters

A practical, professional degree combining clinical immersion and product development

Customized Curriculum

The Master of Engineering (MEng) degree in Biomedical Engineering is an individually designed professional master's degree program for students who are focused on a career in the medical device and technology field. This flexible program is typically completed in as little as two semesters of full-time study, and part-time options are also available.



Video BU BME Master of Engineering

Clinical Immersion

This experiential opportunity allows our students to be clinical observers in a participating specialty at Boston Medical Center. They perform 50-100 hours of observations under the guidance of BMC clinical mentors. Clinical specialties include Cardiac Surgery, Otolaryngology, Trauma and Acute Care Surgery, Orthopedic Surgery, Neurosurgery, and Vascular Surgery.

Medical Device Development

MEng students develop deep technical skills through advanced biomedical engineering courses. After analyzing real-world medical needs, they choose and design innovative medical device solutions. Experienced industry mentors guide students through the complete product development cycle, including intellectual property and commercialization of medical devices, and how to turn their ideas into real products.

Course Offerings

- Biomechanics & Mechanobiology
- Tissue Engineering & Regenerative Medicine
- Neural Engineering
- Systems, Synthetic, & Molecular Bioengineering
- Biophotonics & Biomedical Imaging
- Computational Modeling & Data Science
- Diagnostics & Biosensing
- Biomaterials & Nanotechnology





Professional development

Faculty, alumni and current students share networking references and mentoring to provide advice and assistance to meet each student's career goals. Our graduates are employed by leading companies in the medical device and healthcare fields. Alumni have jobs in over 75 high-end biomedical companies.

ENG Career Development Office (CDO)

The Engineering CDO works with our students to help them identify and pursue their career goals, through resume and cover letter writing workshops, career fairs, one-on-one advising.

Location - Boston's MedTech hub

BU is an integral part of the area's thriving medical technology hub. Studying in Boston places you front and center in an environment rich with major biotechnology companies and startups, presenting diverse learning, research, networking and workforce opportunities.

GRE scores not required

The GRE is NOT required to apply for admission. Not submitting GRE scores will not have a negative impact on the evaluation of your application.



Required Coursework

- · Biomedical and Clinical Needs Finding
- Advanced Biomedical Design and Development
- One Math course selected from approved list
- Two BME graduate-level electives
- Two graduate-level technical electives
- One Technology Leadership elective

APPLY NOW

Application Deadlines:

January 15 - Masters Priority Deadline All applications will be considered for scholarships, and those completed by January 15 will receive priority review.

March 15 - Applications received after March 15 will be reviewed on a space-available basis.

Information:

www.bu.edu/eng/departments/bme/programs

Contact: bmemast@bu.edu

BU.EDU/BME

