Biomedical Engineering

MASTER OF SCIENCE PROGRAM

ADVANCED TRAINING IN BIOMEDICAL ENGINEERING

BU’s Master of Science (MS)
A research-focused master’s degree program designed to provide superior training in order for students to pursue advanced biomedical engineering careers. The program requires students to establish the necessary foundation in molecular or systems-level biology/physiology and mathematics, in addition to technical coursework. All students are required to complete a practicum, which can be satisfied by completing an approved mentored project. Alternatively, students may satisfy the practicum requirement by developing a research focus and carrying out original research that culminates in a written thesis.

Boston University College of Engineering
Department of Biomedical Engineering
MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING (MS)

- 36 credits
- Mentored Project or traditional Thesis
- Can be completed in 3 semesters

A technically-focused program of advanced training:
• Emphasis on choosing individual focus and pursuing original work
• Selective program allowing for customization and individual attention
• Professional development workshops with experts, career professionals and employers
• Established alumni network
• World-class faculty mentors

AREAS OF RESEARCH:
Biomechanics and Mechanobiology
Molecular, Cellular and Tissue Engineering
Neural Engineering
Synthetic and Systems Bioengineering
Biomaterials
Biomedical Imaging
Computational Modeling and Data Sciences
Nanotechnology and Sensing
Additional Specialization programs are available in Data Analytics, Cybersecurity or Robotics through the College of Engineering.

Optional concentration:
Master of Science with a Focus in Nanomedicine

This Focus area is a collaboration between Biomedical Engineering, the School of Medicine and the Nanotechnology Innovation Center at BU. This focus affords the opportunity for MS students to integrate knowledge, ideas and skills from multiple disciplines, to apply nanotechnology to medical challenges. Coursework will be concentrated on nanomedicine topics and their project must directly relate to challenges in this emerging interdisciplinary field. Graduates will be prepared to use their nanotechnology skills in industry and consulting careers or in future training in MD, PhD or MD/PhD programs.

ONE OF THE FIRST. ONE OF THE BEST.

Founded in 1966, Boston University’s Biomedical Engineering department is an elite program attracting exceptional graduate and undergraduate students nationally and internationally. Consistently ranked among the top BME departments in the nation by U.S. News & World Report, our 40 full-time primary faculty members put us among the largest departments in the country. BU BME is known for its highly quantitative approach to biomedical science with a focus on applying engineering, computational and analytical techniques to biological systems.

The department maintains state-of-the-art educational and research facilities, including a 170,000 square foot Integrated Life Sciences & Engineering Facility, a BioInterface Technologies Facility, a Micro and Nano Imaging Facility, a Bioengineering Technology & Entrepreneurship Center and 8 interdisciplinary research centers.

LOCATION - BOSTON’S BIOTECH HUB:
BU is an integral part of the area’s thriving biotechnology 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.

EMPLOYMENT:
Within 6 months of graduation, virtually all BU College of Engineering students are employed or pursuing further advanced degrees. Alumni have jobs in over 75 high-end biomedical companies.

APPLY NOW
Application Deadline: March 15
(January 15 – Priority Review for Scholarships)
Information:
www.bu.edu/eng/departments/bme/programs
Contact:
Inna Gerzon (igerzon@bu.edu)

BU.EDU/BME

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