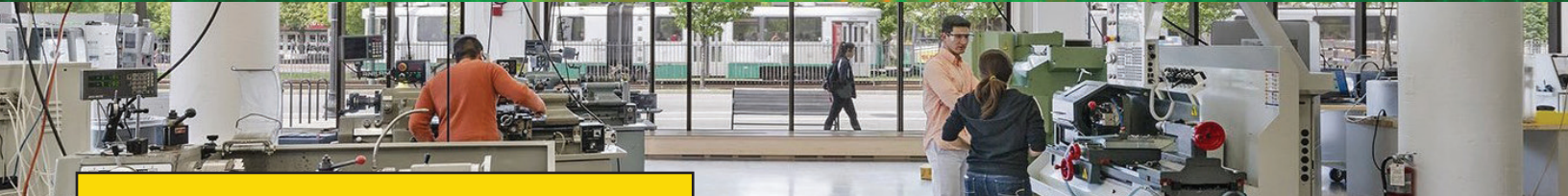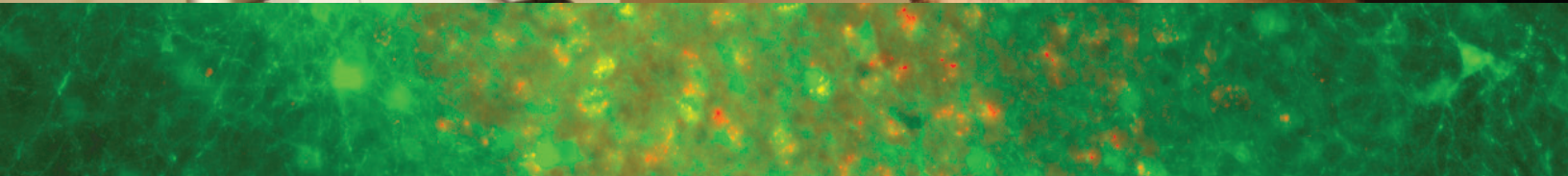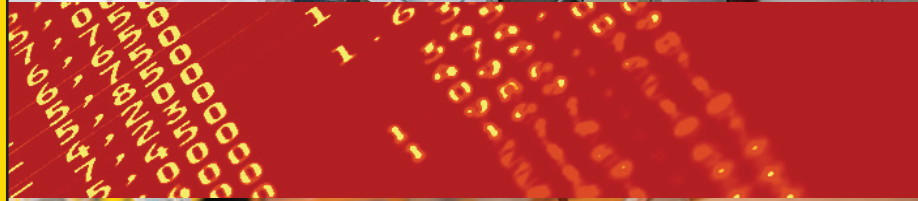# Biomedical Engineering

MASTER OF ENGINEERING PROGRAM

ADVANCING PATIENT CARE THROUGH NEW TECHNOLOGY

BU's Master of Engineering (MEng)

A customized, professional master's degree program for students focused on careers in the private sector, the MEng offers a graduate curriculum of advanced technical courses in an area of specialization and a unique practical hands-on product development project, which engages the clinical community to identify and develop novel engineering solutions to medical problems.

Boston University College of Engineering
Department of Biomedical Engineering

BOSTON UNIVERSITY

MASTER OF ENGINEERING IN BIOMEDICAL ENGINEERING (MEng)

- **32 credits**
- **Advanced technical coursework**
- **Technology leadership fundamentals**
- **Can be completed in as little as 2 semesters**

A clinical immersion program with individual focus:

- 50 hours of direct clinical observation
- Interaction with clinicians from the Boston Medical Center and BU School of Medicine
- Emphasis on customization and individual attention
- Professional development workshops with experts, career professionals and employers
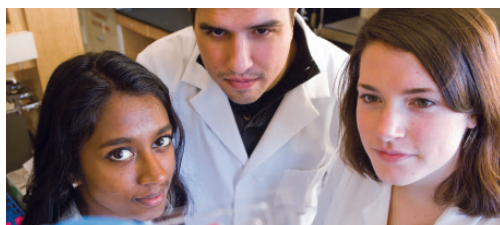- Established alumni network

AREAS OF SPECIALIZATION:

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.

Advanced Biomedical Design and Development
All students in the MEng degree program complete this two-semester, hands-on practicum course. A complete experiential opportunity to work directly with the clinical community, students analyze real-world medical needs, design innovative engineering solutions, build working prototypes and reduce these concepts to practice. Students will also develop regulatory, IP and realistic implementation plans for commercializing their designs. Students progress through the complete product development cycle: **Discovery, Design, Development and Deployment.**

BU

Boston University College of Engineering
Department of Biomedical Engineering

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 37 full-time primary faculty members put us among the largest departments in the country. BU BME department is known for its highly quantitative approach to biomedical science with a focus on applying engineering, computational and analytical techniques to biological systems. Experiential learning opportunities, including opportunities to work with clinicians at the Boston University School of Medicine and other Boston-area hospitals, deepen students' knowledge base, preparing them for careers in companies producing cutting edge products and technologies.

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 Biomedical Engineering Computational Simulation Facility, and 7 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 - Financial Aid)

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

Contact:
Christen L. Bailey (christen@bu.edu)

BU.EDU/BME