

# BIOMEDICAL ENGINEERING (BME)



## GRADUATE PROGRAM

Biomedical Engineering integrates biological, chemical, physical, mathematical, and computational sciences with engineering principles to address problems in biomedicine for improved patient healthcare and quality of life for healthy individuals

## A MULTIDISCIPLINARY JOINT PROGRAM

Bringing together approximately 25 faculty members from Biological Sciences - Chemistry - Statistics - Engineering Sciences - Chemical Engineering - Computer Engineering - Electrical and Electronics Engineering - Metallurgical and Materials Engineering - Mechanical Engineering - Informatics Institute.

## DEGREES OFFERED

- Master of Science (M.Sc.),
- Doctor of Philosophy (Ph.D.)

## STUDY TRACKS & RESEARCH AREAS

A structured curriculum across 4 distinct tracks to develop specialized expertise

- Bioelectrical Engineering
- Biomaterials:
- Biomechanics
- Biomolecular Engineering

### Engage in pioneering interdisciplinary research in areas such as

Tissue Engineering & Regenerative Medicine - Smart Biomaterials & Targeted Drug Delivery - Mechanobiology, Cell & Soft Tissue Mechanics - Clinical Biomechanics, Gait & Motion Analysis - Cardiovascular Engineering & Physiological Fluid Dynamics - Medical Imaging, AI & Computational Diagnostics - Bio-MEMS, Organ-on-a-Chip & Microphysiological Systems - Neuroscience, Neuroengineering & Neural Interfaces - Bioinformatics & Computational Systems Biology - Advanced Prosthetics & Exoskeletons - Molecular & Cancer Bioengineering

## WHO CAN APPLY?

- The program is open to students with an undergraduate degree from departments of science, medicine, and engineering.
- Depending on the individual's background, admitted students might be required to take preparatory courses by the Admission Committee.

Discover more at the program website: [www.bme.metu.edu.tr](http://www.bme.metu.edu.tr)



SCAN ME

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