

MS IN BIOMEDICAL ENGINEERING



WHY PURSUE GRADUATE STUDIES IN BIOMEDICAL ENGINEERING?

The last half-century has seen an unparalleled explosion in new medical knowledge, leading to the creation of biomedical industries and health-related businesses. Experts say that the next ten years will see still more advances, with the development of new diagnostics and treatments for cancer, diabetes, stroke, and other diseases. Biomedical engineering brings students to the very core of these advances by integrating physiology, biology, and medicine to develop methods of solving clinical problems in medicine and surgery.

WHY STUDY BIOMEDICAL ENGINEERING AT NJIT?

New Jersey is home to some of the most exciting biomedical engineering in the world, and NJIT is right in the middle of the activity. Located in the University Heights district, NJIT is within walking distance of the University of Medicine and Dentistry of New Jersey and University Hospital as well as the world-class Public Health Research Institute and the nationally renowned Center for Molecular and Behavioral Neuroscience at Rutgers-Newark. NJIT's biomedical engineering students consider the whole of University Heights to be their campus. Cooperative research is performed with companies, rehabilitation institutes and medical centers within easy commute from NJIT.

WHAT TYPES OF BIOMEDICAL ENGINEERING RESEARCH CAN I DO?

Major research areas include neural and vision engineering; tissue engineering; biomaterials; biosensors biomechanics and sensory-motor control of human motion; biomedical signal processing and instrumentation; computational biomedical engineering.

WHAT AREAS OF CONCENTRATION ARE AVAILABLE?

Biosignal and Image Processing; Bioinstrumentation; Biomaterials and Tissue Engineering; Biomechanical and Rehabilitation Engineering; Biosystems Analysis and Simulation.

IS PART-TIME STUDY AVAILABLE?

As with all graduate programs at NJIT, the MS in Biomedical Engineering can be pursued on a full- or part-time basis. Most courses are scheduled in evenings, weekends, or late afternoons to accommodate working professionals.

DOES THE PROGRAM OFFER FINANCIAL AID?

Various financial support and graduate award options are available to graduate students at NJIT, including teaching, research and graduate assistantships; fellowships; special awards; loans and work-study; cooperative education industry positions.

FOR MORE INFORMATION: Contact [Dr. Richard Foulds](#), 973-596-3335, or visit the [Department of Biomedical Engineering](#), the Office of [Graduate Admissions](#), or the NJIT [Graduate Catalog](#).

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