



Biomedical engineering applies quantitative engineering analysis and design to biological and medical problems. The University of Delaware's (UD) Ph.D. program in biomedical engineering is highly regarded for our rigorous technical curriculum, internationally recognized faculty, and world-class, high-impact research in nearly every aspect of modern biomedical engineering.

Our doctoral program offers a wide range of research and career opportunities for those passionate about advancing innovations to enhance health and quality of life. From revealing basic knowledge of disease mechanisms to developing new technologies and therapies, our faculty and students are at the leading edge of musculoskeletal biomechanics, drug delivery and medicine, cell and tissue engineering, disease modelling and neuroengineering and rehabilitation.

EXCEPTIONAL LEARNING OPPORTUNITIES

- Our faculty of internationally recognized scholars are affiliated with multidisciplinary research centers of excellence featuring state-of-the-art facilities, such as the Center for Composite Materials, Delaware Rehabilitation Institute, and Center for Biomechanical Engineering Research.
- UD is a Land Grant, Sea Grant and Space Grant Institution. The Carnegie Foundation for the Advancement of Teaching classifies UD as a research university with very high research activity—a designation accorded to fewer than 3 percent of U.S. colleges and universities.
- UD is centrally located along the nation's northeast corridor between New York and Washington, D.C., with major cities of Philadelphia and Baltimore, and government research laboratories, such as the U.S. Army Research Laboratory at Aberdeen Proving Ground and the U.S. Naval Research Laboratory, just a short drive away. Convenient access to transportation puts the cultural, economic and political centers of the world within your reach.

CORE RESEARCH AREAS

MUSCULOSKELETAL BIOMECHANICS

Quantify structure, function, and mechanobiology of musculoskeletal tissues and systems to solve orthopedic disorders in aging, degeneration, injury, including developing therapeutic treatment and repair.

DRUG DELIVERY & NANOMEDICINE

Use micro- and nano- engineering to advance precision medicine, nanomedicine, and drug and biomolecule delivery for cancer and other diseases and develop therapeutic treatment and repair.

CELL & TISSUE ENGINEERING

Harness physiologically relevant engineering systems for discovery and treatment of disease including cancer, cardiovascular disease, and pulmonary development and disease.

DISEASE MODELLING

Develop and applying computational or physical models to determine underlying mechanisms of disease.

NEUROENGINEERING & REHABILITATION

Analyze neural structure and function and develop devices and methods for rehabilitation or assistance of individuals with neuromotor disorders.



TO APPLY

For more information about graduate admission and to apply online, visit the Office of Graduate and Professional Education at www.udel.edu/gradoffice. Applicants must have a bachelor's degree in biomedical engineering or a closely related field of engineering, science or mathematics.

FUNDING

Awards of financial assistance (fellowships and assistantships)—which include graduate tuition and a competitive stipend—are made on the basis of merit. Students who complete applications by January 15 are given preference. Contact the faculty in your area(s) of interest to discuss potential research opportunities today!

ADMISSION DEADLINES

March 2

CONTACT

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