If you have a passion for biomedical engineering and are interested in advancing your knowledge and problem-solving skills to become a leader in this exciting field, a wealth of opportunity awaits you as a graduate student in the Marquette University and Medical College of Wisconsin Department of Biomedical Engineering. Here, you will benefit from the renowned engineering education and research from Marquette University, that is blended with the innovative medical research and clinical practice of the Medical College of Wisconsin (MCW).

Your educational journey – which includes learning from and alongside engineering leaders and faculty physicians – will provide you with hands-on experience from our industry partners, preparing you to contribute to the field of biomedical engineering as a software and hardware engineer, a researcher developing new medical devices, a clinical patient evaluator or an instructor guiding the efforts of future generations of biomedical engineers.

**BIOMEDICAL ENGINEERING DEPARTMENT**

**GRADUATE DEGREE PROGRAMS**

If you have a passion for biomedical engineering and are interested in advancing your knowledge and problem-solving skills to become a leader in this exciting field, a wealth of opportunity awaits you as a graduate student in the Marquette University and Medical College of Wisconsin Department of Biomedical Engineering. Here, you will benefit from the renowned engineering education and research from Marquette University, that is blended with the innovative medical research and clinical practice of the Medical College of Wisconsin (MCW).

Your educational journey – which includes learning from and alongside engineering leaders and faculty physicians – will provide you with hands-on experience from our industry partners, preparing you to contribute to the field of biomedical engineering as a software and hardware engineer, a researcher developing new medical devices, a clinical patient evaluator or an instructor guiding the efforts of future generations of biomedical engineers.

**GRADUATE DEGREE PROGRAMS:**

- Five-Year Bachelor's/Master's in Biomedical Engineering
- M.S. in Healthcare Technologies Management
- M.S. in Biomedical Engineering
- M.E. in Biomedical Engineering
- Ph.D. in Biomedical Engineering
- Ph.D. in Biomedical Engineering with a Specialization in Functional Imaging

**UPON EARNING YOUR GRADUATE DEGREE FROM OUR BME DEPARTMENT, YOU WILL BE ABLE TO:**

- Apply your knowledge of math, science and engineering to solve a variety of challenges currently faced in clinical settings
- Design and conduct experiments; analyze and interpret the data
- Function on multi-disciplinary teams in a broad range of biomedical engineering careers
- Demonstrate the techniques, skills and modern engineering tools necessary for your practice in biomedical engineering
INNOVATIVE PROGRAMS FOCUSED ON MEETING TOMORROW’S NEEDS

As a graduate student in the BME Department, you can select from six programs to advance your knowledge in biomedical engineering, preparing you to meet the challenges and improve the delivery of healthcare.

FIVE YEAR BACHELOR’S/MASTER’S PROGRAM

If your undergraduate educational experience inspires you to continue your studies, you may be eligible to participate in our five-year B.S./M.S. program, allowing you to receive a bachelor of science and a master of science in just five years. With a qualifying grade point average, you may enroll in the program during your junior year and begin your thesis research the summer between your junior and senior years. Your research laboratory experience will continue during the summer between your senior and fifth year and throughout your final year. Your educational experience culminates with your preparation of a written thesis and defense.

M.S. IN HEALTHCARE TECHNOLOGIES MANAGEMENT

If you seek greater professional, technical and managerial skills that you can apply to a variety of careers in healthcare institutions and medical device/equipment professions, our Healthcare Technologies master of science degree program – the first-of-its-kind program in the U.S. combining business, technology and healthcare to present a core curriculum – is perfect for you.

M.S. IN BIOMEDICAL ENGINEERING

A master of science degree in Biomedical Engineering will provide you with advanced training in biomedical engineering, including the necessary foundation in molecular- or systems-level biology/physiology and mathematics. Additionally, you will encounter advanced biomedical engineering courses, participate in a research project and prepare a written thesis.

M.E. IN BIOMEDICAL ENGINEERING

This non-thesis degree program will expose you to coursework in existing biomedical engineering graduate programs of study, upper level undergraduate courses that carry graduate credit and coursework taken outside of the BME Department offerings. Your educational experience will culminate with a final comprehensive capstone written exam.

PH.D. IN BIOMEDICAL ENGINEERING

If your commitment to and passion for the field of biomedical engineering extends beyond required coursework, we encourage you to consider earning your Doctor of Philosophy degree in biomedical engineering. Upon earning your baccalaureate degree, you will continue to demonstrate your dedication in your major field through at least three years of full time work (or the equivalent) before being recognized for your ability and attainment of the highest level of knowledge in the biomedical engineering field.

PH.D. IN BIOMEDICAL ENGINEERING WITH A SPECIALIZATION IN FUNCTIONAL IMAGING

If you are interested in receiving training in the use of technologies to capture high-resolution data of the structural and functional aspects of biological systems, as well as the use of mathematical modeling to understand organ physiology, our Doctor of Philosophy degree in biomedical engineering, with a specialty in functional imaging was designed for you.

LEARN MORE

To learn more about how you can become an undergraduate student in our BME Department, we’re here to help you!
contact@mcw.marquette.edu  |  414-288-3375  |  www.mcw.marquette.edu

The Marquette University and Medical College of Wisconsin Department of Biomedical Engineering

Marquette University
Opus College of Engineering
1515 W. Wisconsin Avenue
Milwaukee, WI 53233

Medical College of Wisconsin
8701 W. Watertown Plank Road
Milwaukee, WI 53226