Our Mission

The Department of Biomedical Engineering (BME) offers the following degrees and programs: bachelor of science, undergraduate minor, one-year non-thesis master of science, two-year thesis-based master of science, and doctorate degree programs. Our research and education missions focus on applications of engineering principles and technologies to medical and life sciences to improve human health and society.

Degrees Awarded [2020-21]

- 11 Ph.D.
- 91 Undergraduate
- 4 Master’s

Total Degrees in BME: 106

In 2019, the Chemical and Biomedical Engineering Building opened at Penn State University Park, housing both BME and the Department of Chemical Engineering. This building features state-of-the-art classrooms, lecture halls, student common areas, and laboratory suites.
Research Areas
- Biomaterials and Drug Delivery
- Biomechanics and Mechanobiology
- Biomedical Devices
- Biomedical Imaging
- Computational Modeling of Biological Systems
- Regenerative Medicine

Outreach Groups
- Biomedical Engineering Society
- Physicians for Human Rights
- Women in Engineering Program
- Multicultural Engineering Program
- Society for Industrial Biotechnology

Affiliated University Centers and Institutes
- Center for Structural Oncology
- Center for Mathematics of Living and Mimetic Matter
- Center for Industrial Biotechnology
- Penn State Clinical Translational Science Institute
- Penn State Heart and Vascular Institute
- Huck Institutes of the Life Sciences
- Institute for CyberScience
- Institute for Computational and Data Science
- Materials Research Institute
- Penn State Cancer Institute
- Penn State Center for Biodevices
- Penn State Hershey Medical Center
- Social, Life, and Engineering Sciences Imaging Center

Minors and Degrees Offered

Bachelor of Science (B.S.)
- Biomedical engineering with four specialized degree options: biochemical, biomaterials, medical imaging and devices, and biomechanics

Master of Science (M.S.)
- Biomedical engineering: one-year, non-thesis resident path
- Biomedical engineering: two-year, thesis-based path

Doctor of Philosophy (Ph.D.)
- Biomedical engineering

Student Engagement
Penn State BME students participate in experiential learning: Co-ops, internships, undergraduate research opportunities, study abroad opportunities, and global capstone projects

APPROXIMATELY 75%

bme.psu.edu
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PennState College of Engineering
BIOMEDICAL ENGINEERING