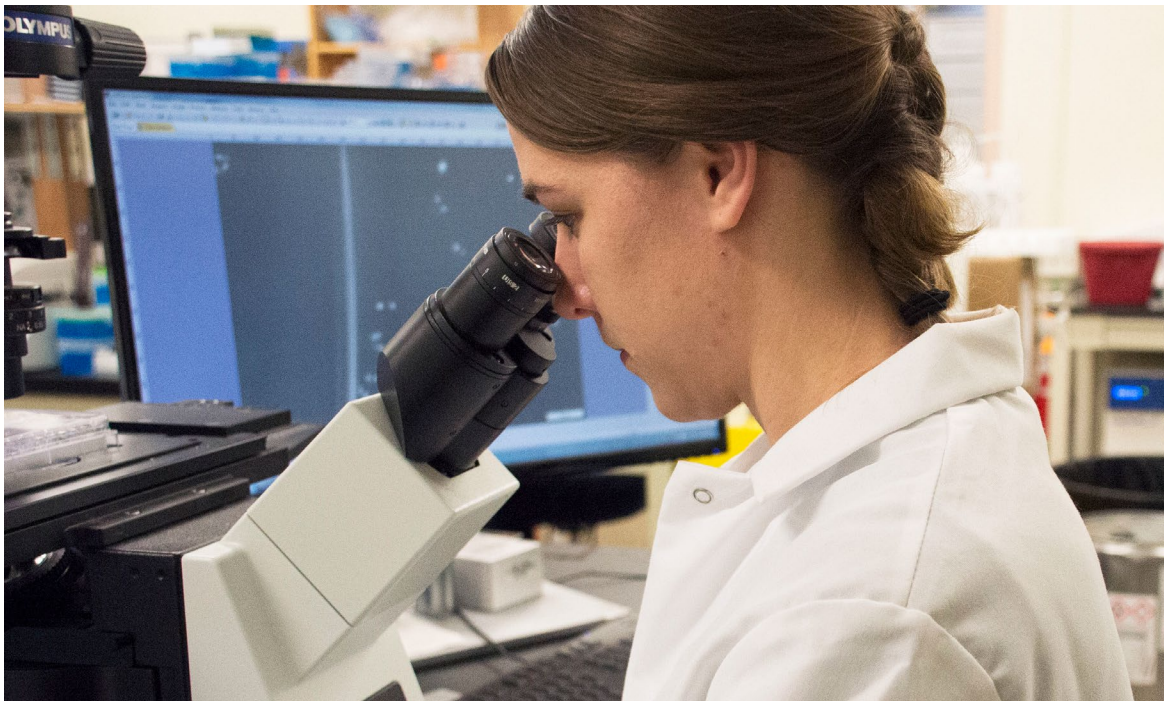
Snapshot

BIOMEDICAL ENGINEERING

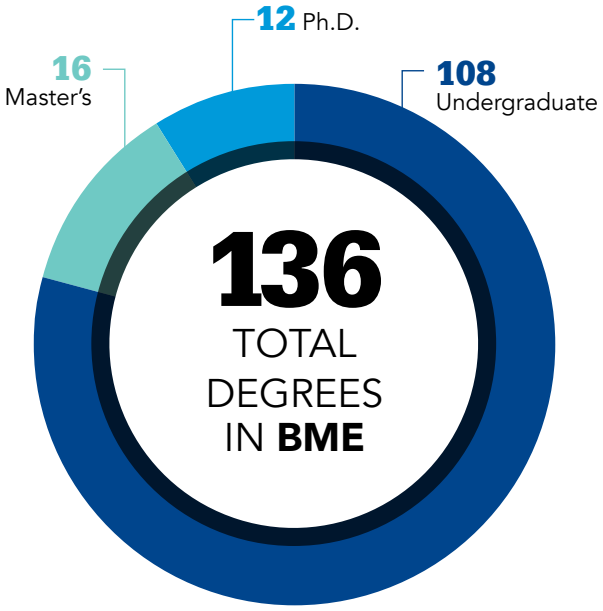


Our Mission

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. Our research and education missions focus on applications of engineering principles and technologies to medical and life sciences to improve human health and society.

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.

Degrees Awarded [2022-23]



8 NSF CAREER Award Recipients

1 NAI Fellow

8 AIMBE Fellows

$14.9 MILLION

2022 Research Expenditures

*Includes externally and internally funded projects, subcontracts, and capital improvements.

28 Faculty

Enrollment

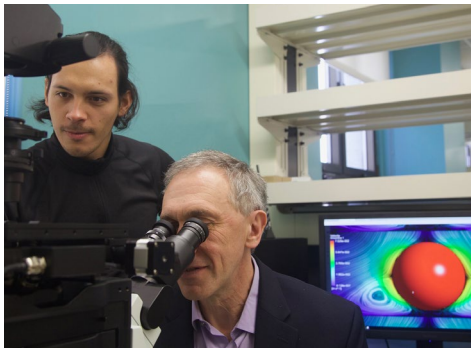
359 Undergraduate
(third- and fourth-year students)

22 Master's

90 Ph.D.

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



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

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

APROXIMATELY

75%

Student Engagement

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

bme.psu.edu

PennState College of Engineering | BIOMEDICAL ENGINEERING