The Department of Biomedical Engineering (BME) administers the undergraduate major (B.S. degree) and minor, and 1-year non-thesis based M.S. degree. The department’s graduate program is a part of the University-wide Intercollege Graduate Degree Program, offering both M.S. and Ph.D. degrees in bioengineering. Our research and education missions focus on applications of engineering principles and technologies to medical and life sciences for the betterment of human health and society.

Approximately 75% of Penn State BME students who participate in experiential learning: Co-ops, internships, undergraduate research opportunities, study abroad opportunities, and global capstone projects.

Minors and Degrees Offered

**Bachelor of Science (B.S.)**
- Biomedical engineering with 4 specialized degree options (biochemical, biomaterials, medical imaging and devices, and biomechanics)

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

**Doctor of Philosophy (Ph.D.)**
- Bioengineering

**Doctor of Philosophy (Ph.D.)/Doctor of Medicine (M.D.)**
- Dual degree bioengineering and medicine

Degrees Awarded (2017-18)

- 126 Total Degrees in BME
- 6 1-Year Non-Thesis Master’s
- 11 Ph.D.
- 7 Master’s
- 102 Undergraduate
- 6 Master’s

Faculty (2018-19)

- 10 Professors
- 3 Associate Professors
- 7 Assistant Professors

NEW HIRES 2019 – 2022

Cheng Dong
Department Head

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

- Biomedical Engineering Society (BMES)
- Physicians for Human Rights (PHR)
- Women in Engineering Program (WEP)
- Multicultural Engineering Program (MEP)

University-wide Centers and Institutes:

- Clinical Translational Science Institute (CTSI)
- Heart and Vascular Institute
- Huck Institutes of the Life Sciences
- Institute for CyberScience
- Materials Research Institute
- Penn State Cancer Institute
- Penn State Hershey Medical Center
- Social, Life, and Engineering Sciences Imaging Center (SLEIC)

Research Areas:

- Biomaterials and Drug Delivery
- Biomechanics and Mechanobiology
- Biomedical Devices
- Biomedical Imaging
- Computational Modeling of Biological Systems
- Regenerative Medicine

For more information about our research areas, please go to tinyurl.com/bme-research