About Biomedical Engineering
Biomedical engineers work with cutting-edge technologies to tackle grand challenges related to the application of engineering principles to human physiology. At Rensselaer, the BME curriculum combines significant life science content with engineering and basic science courses. Undergraduate BME students can select one of five offered specialization areas (biomaterials, biomechanics, biomedical data science, bioimaging, and medical devices) and also have the option of combining these with a pre-med or a management minor as well as the standard BME curriculum.

Research Areas
- Biofabrication and Biomanufacturing
- Biomedical Imaging and Image Analysis
- Biomolecular Science and Engineering
- Musculoskeletal Biomechanics and Mechanobiology
- System Biology & Healthcare Analytics
- Tissue Engineering and Regenerative Medicine

Undergraduate Program
- B.S. degree offered
- Optional Pre-Med or Management Minor
- 307 current undergraduates
- 2021: 93 B.S. degrees awarded in BME

Graduate Program
- M.Eng, M.S., and Ph.D. degrees offered
- 82 current graduate students
- 2021: 20 Masters degrees and 5 Ph.D.s awarded
- 100% of doctoral students received financial support in Fall 2021

Affiliated Research Centers
- Biomedical Imaging Center
- Center for Biotechnology & Interdisciplinary Studies
- Center for Computational Innovations
- Center of Modeling, Simulation and Imaging in Medicine
- Center for Stem Cell Research

Faculty
*BME faculty includes 6 current NSF CAREER awardees
- Ge Wang, Clark and Crossan Endowed Professor
- David Corr*, Professor
- Stanley Dunn, Professor
- Ryan Gilbert*, Professor
- Juergen Hahn, Professor and Department Head
- Mariah Hahn*, Professor
- Xavier Intes*, Professor
- Deepak Vashishth, Professor
- Jonathan Newell, Professor Emeritus
- Wolf von Maltzahn, Professor Emeritus
- Deanna Thompson, Associate Professor
- Qun (Leo) Wan*, Associate Professor
- Pingkun Yan*, Associate Professor
- Elizabeth Blaber, Assistant Professor
- Uwe Kruger, Professor of Practice
- Hisham Mohamed, Senior Lecturer
- Xun Wang, Senior Lecturer
- Monica Agarwal, Lecturer
- George Lee, Lecturer

RPI was one of the first universities to award a BS in Biomedical Engineering in 1967.

The School of Engineering has 12 engineering focused research centers and offers 30 degree programs.