Biomedical engineering is a multi-disciplinary field that builds upon mathematics, physical sciences, and chemical sciences; integrates engineering and life sciences; and is applied to wide-ranging issues in biology and medicine. The biomedical engineering program in the Department of Biomedical Engineering educates engineers in both breadth and depth of biomedical engineering, with specific activities in the domains of bioimaging; biotransport; biomaterials; biomechanics; molecular, cellular, and tissue engineering; and micro/nano-biotechnology. Students are challenged to integrate the engineering and life sciences throughout the curriculum, including quantification of physiological processes, modeling, and computer simulation of biological phenomena.

**Career Areas/Job Titles:**

**Management and Industry**
- Manager
- Sales Specialist
- Operations Manager
- Consultant
- Lawyer

**Communication and Media**
- Technical Documentation Expert

**Health Professions**
- Clinical Engineer
- Plan Engineer

**Science and Technology**
- Doctor of Medicine
- Equipment Consultant
- Rehabilitation Engineer
- R&D Specialist
- Biomechanics Engineer
- Bioinstrumentation Engineer
- Design Engineer
- Product Engineer

**Education**
- Professor
- Medical Researcher
- Social Service Consultant

**Non-Profit/Advocacy**
- Social Service Consultant

*Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

**Transferable Skills:**

- Biology
- Chemistry
- Engineering Fundamentals
- Human Anatomy
- Mathematics
- Physics
- Persuasion
- Provide/Respond to Feedback
- Use Technology Effectively
- Written Communication
- Emotional Intelligence
- Service Orientation
- Social Perceptiveness
- Teaching/Instructing Others
- Teamwork
- Identifying Problems
- Research Skills
- Setting Goals
- Adaptability/Flexibility
- Attention to Detail
- Judgment & Decision Making
- Managing Time/Stress
- Strategic Planning/Visioning
- Creating Innovative Solutions
- Multi-tasking
- Analytical/Critical Thinking
- Problem Solving

*This is not an extensive list of transferable skills. See larger list of skills you might develop here: [http://ccss.osu.edu](http://ccss.osu.edu)*

**Professional Links:**

- Biomedical Engineering Society: [http://bmes.org/](http://bmes.org/)
- Biomedical Engineering at OSU: [http://bme.osu.edu/](http://bme.osu.edu/)
- Society For Biomaterials: [http://www.biomaterials.org/](http://www.biomaterials.org/)