What can I do with a major in...

BIOMEDICAL ENGINEERING

Biomedical engineers combine engineering principles with medical and biological sciences to design and create equipment, devices, computer systems, and software used in healthcare.

INDUSTRIES:
Medical Equipment and Supplies Manufacturing; Scientific Research and Development Services; Navigational, Measuring, Electromedical, and Control Systems Manufacturing; Pharmaceutical and Medicine Manufacturing

Common Job Titles
- Manufacturing Engineer
- Quality Engineer
- Software Engineer
- Researcher
- Physician

Tools
- Electrometers
- Medical MRI Scanners
- pH Electrodes
- Physiological Recorders
- Pressure Indicators

Salary
- Entry Level: $59,000
- Median Annual: $86,220

0.4 UNEMPLOYMENT

Popular Employers
- Aptus Endosystems
- Atricure
- Cardio Kinetix
- Heartport Inc.

Technology
- Analytical/Scientific Software
- Computer Aided Design Software
- Development Environment Software
- Requirements Analysis and System Architecture Software

Work Styles
- Analytical Thinking
- Attention to Detail
- Integrity
- Dependability
- Persistence

Related Occupations
- Logistics Engineer
- Chemical Engineer
- Biochemical Engineer
- Photonics Engineer
- Manufacturing Engineering Technologists
Biomedical Engineers:

- Design equipment and devices, such as artificial internal organs, replacements for body parts, and machines for diagnosing medical problems.
- Install, adjust, maintain, repair, or provide technical support for biomedical equipment.
- Evaluate the safety, efficiency, and effectiveness of biomedical equipment.
- Work with life scientists, chemists, and medical scientists to research the engineering aspects of the biological systems of humans and animals.

Advice from the Pros

Develop a Portfolio.

Participate in every hands-on, experimental learning opportunity that a balanced schedule allows. This way, you’ll have something unique to show a prospective employer when you graduate, while other students will only be able to list their courses.

Learn the Value of Networking.

When it comes to being a leader, WHO you know is almost as important as WHAT you know. Attend lectures on campus and introduce yourself to the speakers. Build your LinkedIn profile.

Be a Team Player.

Throughout your career, you can be sure you’ll work in teams, and the skills you develop in school will help prepare you to lead teams when you graduate.

Don’t Be Afraid of Crazy Ideas.

Risk taking can lead to an important discovery, so don’t be afraid of any crazy ideas, but make sure to be prepared to project-manage them with focus and prioritization.