**Program Description**

**Biomedical Engineers** apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems products. Biomedical engineers may work with artificial organs, prostheses, instrumentation, medical information systems, and health management/care delivery systems. Biomedical engineers work in manufacturing, universities, hospitals, company research facilities, educational and medical institutions, teaching, and government regulatory agencies. They often serve a coordinating function, using their background in both engineering and medicine. In industry, biomedical engineers may create projects where an in-depth understanding of living systems and technology is essential. They frequently work in research and development or in quality assurance too.

**Sample Occupations**

- Biomedical Engineer
- Biochemist
- Bioengineering Researcher
- Engineering Professor
- Biochemical Engineer
- Medical Equipment Repairer
- Clinical Engineer
- Research Engineer
- Biomedical Technician
- Biomedical Manager
- Nanosystems Engineer
- Biophysicist

**Sample Work Settings**

- Medical Equipment Suppliers
- Pharmaceutical Manufacturers
- Medicine Manufacturing
- Professional Schools
- Colleges or Universities
- Federal Government
- Hospitals
- Research Laboratories

**Job Search & Career Planning Resources**

Use Career Center online resources (GWork, GoingGlobal, Vault)

Keywords: Biology, Engineering, Chemicals, Bioengineering

**Top Employer in this field:**


**Professional Organizations**

Tips: Join professional organizations to network and find out more about your field.

American Institute of Chemical Engineers: [www.aiche.org](http://www.aiche.org)
American Society for Engineering Education: [www.asee.org](http://www.asee.org)
Biomedical Engineering Society: [www.bmes.org](http://www.bmes.org)
IEEE: [www.ieee.org](http://www.ieee.org)
Institute of Industrial Engineers: [www.iienet.org](http://www.iienet.org)
International Engineering Consortium: [www.iec.org](http://www.iec.org)
American Society of Agricultural and Biological Engineers: [www.asabe.org](http://www.asabe.org)

**Job Search Sites**

Engineering Central: [www.engcen.com](http://www.engcen.com)
Engineering Jobs: [www.engineerjobs.com](http://www.engineerjobs.com)
Graduating Engineer: [www.graduatingengineer.com](http://www.graduatingengineer.com)
Engineering Careers: [www.thecareerengineer.com](http://www.thecareerengineer.com)
Jobs in Mechanical Engineering: [www.mechanicalengineer.com](http://www.mechanicalengineer.com)
The Chemical Engineer Magazine On-Line: [www.tcetoday.com](http://www.tcetoday.com)