Career Paths

BIOMEDICAL ENGINEERING

The engineering discipline is diverse and features great opportunity.

A bachelor's degree in engineering will provide the opportunity to work in many areas including industry, business, and government. It is critical to gain practical experience in the field while in college through internships, part-time or summer jobs, or volunteer experience. This will allow you to apply academic knowledge and skill to a professional setting, plus you will build your professional network.

A working knowledge of technical skills relevant to your specific engineering discipline is critical, as engineering has scientific and mathematical applications and involves analyzing facts, solving problems, and thinking logically. Due to emerging technologies and rapid changes in the engineering field, it's important to follow trends and stay abreast of new developments.

In addition to technical skills, it's important to develop transferable skills such as verbal and written communication, presenting, collaboration, teamwork, report writing, and leadership. Helpful traits include intellectual curiosity, creativity, technical aptitude, perseverance, and an understanding of the economic and environmental context in which engineering is practiced.

To learn more about the field students should connect with professionals, engage in additional training opportunities, and join professional associations and organizations related to engineering.

Biomedical Engineering

Example Career Paths: Research | Development | Testing | Consulting | Processing Information

Potential Employers: Medical Device and Equipment Manufacturers | Pharmaceutical and Biotechnology Companies | Hospitals and Healthcare Providers | Research Institutions and Universities | Federal Government | Consulting Firms | Medical Imaging Companies | Nonprofit Organizations | Health Insurance Companies

Professional Associations: Biomedical Engineering Society | Institute of Electrical and Electronics Engineers (IEEE) Engineering in Medicine and Biology Society | American Institute for Medical and Biological Engineering | International Federation for Medical and Biological Engineering

Related Occupations: Biomedical Engineer | Nanosystems Engineer | Bioinformatics Scientist | Materials Engineer | Quality Control Analyst | Radiologist | Product Engineer | Bioprocess Engineer | Biomedical Electronics Technician | Research Engineer | Validation Engineer | Clinical Trial Associate | Design and Development Engineer | Field Clinical Engineer | Research Scientist | Medical Device Sales Representative | Process Engineer | Failure Analysis Engineer

Preparing for your Career

- Obtain relevant experience through internships, part-time work, and projects.
- Acquire necessary technical skills relevant to your desired discipline.
- Develop effective analytical, problem solving, and strong interpersonal skills.
- Develop leadership and teamwork skills.
- Anticipate specializing in technologies and products related to your target discipline.
- Explore resources such as LinkedIn to connect with engineering professionals and learn about companies, industries, job duties, and skills needed to succeed in the field.
- Join student and professional organizations to build relationships, skills, and your resume.
- Create a resume that highlights your skills and experience related to engineering, technical competencies, project work, and unique qualifications.

This resource was adapted from What Can I Do With My Major.
For more, visit https://web.uri.edu/career/wcidwmm/