CAREER TALK
BIOMEDICAL ENGINEER

Are you a deep thinker? Like researching facts and figuring out problems hands-on? Do you want to create solutions for real-world problems? Check out the biomedical engineering career.

What do they do?

Biomedical Engineers apply knowledge of engineering, biology, and biomechanical principles to design, develop, and evaluate biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, health management, and care delivery systems. They frequently work in research and development or quality assurance.

Average Salary $91,410

Job Duties

- Design electronic or computer equipment or instrumentation.
- Research engineering aspects of biological or chemical processes of humans and animals.
- Adapt or design computer hardware or software for medical science uses.
- Evaluate the safety, efficiency, and effectiveness of biomedical equipment.

Work Schedule

Biomedical engineers usually work full time on a normal schedule. However, as with employees in almost any engineering occupation, biomedical engineers occasionally may have to work additional hours to meet the needs of patients, managers, colleagues, and clients. Some biomedical engineers work more than 40 hours per week.

Education Requirements

Biomedical engineers typically need a bachelor's degree in biomedical engineering or bioengineering, or in a related engineering field. Some positions may require a graduate degree.

Pennsylvania schools where you can study biomedical engineering include Carnegie Mellon University, Penn State University-main campus, Bucknell University, and the University of Pittsburgh.

Job Outlook, 2018-2028 4% (average growth)

Find out more about biomedical engineering here: https://youtu.be/hBKj9Uh1PgI or https://youtu.be/QlnZpv713V4