

Biomedical Researcher



In the Department of Biomedical Engineering at the Cleveland Clinic, researchers study problems that affect how the body works. Researchers hope to learn how to help people with a wide variety of problems and how to prevent these problems from occurring in the first place.

Career Path

Biomedical Engineers need to have strong skills in math and know a lot about the body as well. If you like math and are interested in how the body works, this may be the career for you. You will need a college degree in an engineering major. Most biomedical engineers also have a master degree or Ph.D. in their field.

The work of a biomedical engineering researcher is like solving a medical puzzle. Biomedical engineers try to find ways to fix a problem in the human body, such as replacing a broken hip or a painful knee. The researchers try many different solutions until they find one that really works. These solutions can help many people to live healthier lives. This will also help everyone to understand more about the human body.

Some people used to think that girls would not be very good at engineering. Today, we know this is not true. Many women work as biomedical engineers at the Cleveland Clinic. Girls who enjoy studying math and science should consider a career in engineering. There are many opportunities for both men and women in this field.

Technology Spotlight

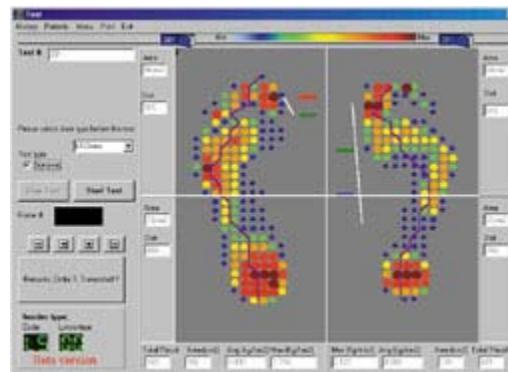
One biomedical engineer at the Cleveland Clinic uses a pressure-sensing pad to measure the amount of pressure a person puts on their foot as they walk. This pad can send the foot pressures to a computer that will show which part of the foot gets the most pressure with every step. This area of high pressure is a likely spot for a foot ulcer to develop, a common type of wound that is difficult to heal. Many older people with diabetes are troubled with foot ulcers. If researchers can figure out why these wounds develop, they might be able to prevent them from forming! What other ways might this technology be used?



FOOT ULCER



STEPPING ON A PRESSURE PAD



COMPUTER IMAGE SHOWING PRESSURES ON THE FEET