

# Biomedical Engineer

Where would modern medicine be without the contributions of biomedical engineering? Imagine hospitals operating without X-rays, ultrasound, EKGs, and the thousands of high-tech procedures and devices that diagnose conditions, sustain health, and fight disease. As a biomedical engineer, you'll make a real difference in the lives of others.

You might develop artificial lenses that restore sight to the blind, radiation treatments that fight cancer, or incubators that keep premature babies alive. And outside the world of medicine, you could contribute to the health of our planet by developing better technology in the fields of agriculture and environmental science.

## Other projects a biomedical engineer may be involved with:

- Create a prosthetic leg designed especially for children
- Grow tissues that help repair damage from heart attacks
- Protect the environment by producing organic fertilizer
- Grow vegetables that contain more nutrients
- Develop cancer treatments that don't cause debilitating side effects



## Biography – Lissette

Lissette designs brain surgery tools for neurosurgeons. She draws three-dimensional computer models, builds and tests prototypes, and makes the instruments. Lissette likes the hands-on aspect of her work, and she loves that her job contributes to saving lives.

## Where she works

Lissette is a product development engineer at Covidien Sports Surgery. This biomedical company specializes in creating devices and systems to improve the repair of soft tissues after sports injuries.

## Favorite project

While in engineering school, Lissette helped children using wheelchairs to become more mobile. When the kids approached a person or an object they might crash into, the sensor signaled for them to change directions.

## What got her interested

Although Lissette was interested in medicine, she didn't want to become a doctor. When she discovered biomedical engineering, she realized it was what she had been looking for—a growing field full of exciting research and job opportunities.

## Advice

“Never let anyone convince you that you can't do it, because if you have the desire and drive, you can!”

## Background

Lissette's mother is originally from Puerto Rico and her father is from Colombia. Along with her two older brothers, she was born and raised in the Boston area.

## Education

B.S. and M.S. in biomedical engineering, Worcester Polytechnic Institute, Worcester, Massachusetts.