

BIOMEDICAL Engineering

Is it for you?



Are you interested in how the human body works?



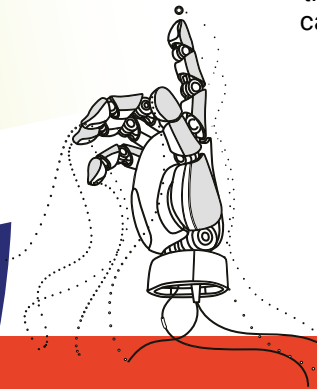
Would you like to invent a device that can detect cancers faster?

DID YOU KNOW THAT...

Biomedical engineering combines medicine with the science of engineering to care for people.

Biomedical engineering is one of the fields of engineering with the most gender parity: More than 53% of biomedical engineers are women.

Health sector needs and new technology developments should increase the number of jobs in the biomedical engineering sector by 5% by 2029.



Source :  REPÈRES
un portail GRICS

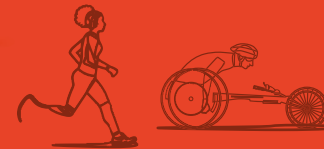
WHAT DO THESE ENGINEERS DO?

- Design, manufacture and test prostheses, orthotic devices or other health care equipment.
- Develop software products and electrical circuits for medical instruments.
- Determine technology needs and design methods, equipment, instruments and biomaterials for use in clinics and for medical diagnoses.
- Advise hospital administrators on planning, acquiring, modifying, developing, servicing or replacing medical apparatuses and health care programs for the ill.
- Ensure effective use of specialized medical equipment, its integration, and networking with other systems.



WHERE DO THESE ENGINEERS WORK?

- Science research and development centres
- Hospitals
- Specialized hospitals
- Academic institutions
- Manufacturers of navigation, measurement and control instruments and medical instruments
- Medical and dental equipment manufacturers



QUEBEC BIOMEDICAL ENGINEERING AT THE HEART OF INNOVATION

Smart walker for children with muscular dystrophy
Limits the need for assistance and transmits relevant data to physiotherapists for easier remote monitoring.



(IN FRENCH)

AVERAGE SALARY
\$93,938

Genium 360, Compensation of engineering professionals in Québec, Investigation report 2024-2025
(genium360.ca/enquête)

PLACE FOR YOU



BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING
4 YEARS



ENDLESS OPPORTUNITIES IN ENGINEERING!
Learn more about biomedical engineering and other kinds of engineering