



Bachelor of Engineering

COMPUTER

B.ENG.(COMPUTER)

What is computer engineering?

Computer engineers design and develop the computer hardware and software systems that are found in so many areas of contemporary life, including cars, microwave ovens, aerospace technologies and the Internet.

Is this the program for me?

Computer engineers are good in math and physics, have an aptitude for working with computers and enjoy applying their creativity to problem solving. They are also reliable and responsible team players and effective communicators, since they work as part of a group most of the time.

What kinds of courses do students take?

The first year includes general sciences courses in math, chemistry and physics. Quebec CEGEP students typically receive one-year advanced standing. Then students take courses in computer and electrical engineering, with a strong focus on computer hardware design and computer software.

Why McGill?

Computer Engineering accepts about 100 people into the program each year. Since the students come from around the world, there are lots of opportunities to get to know new and interesting people.

For further information

Faculty of Engineering

www.mcgill.ca/engineering/

Department of Electrical and Computer Engineering

www.mcgill.ca/ece

What can I do when I graduate?

Computer engineers can work in any aspect of the computer and high-tech industry including hardware development, software development, telecommunications, robotics, medical technologies, the automotive and aerospace industries.

Recent graduates in Computer Engineering have gone on to exciting careers in a wide variety of industries, here are just a few:

- CAE, Systems Engineer
- Capital One, Process Manager
- Environment Canada, Software Developer
- Keyence, Technical Sales Executive
- Morgan Stanley, Technical Associate
- PCO Innovation, Developer
- Royal Jordanian Airlines, IT Manager
- Teradyne, Software Engineer

How do I apply?

Admissions information:

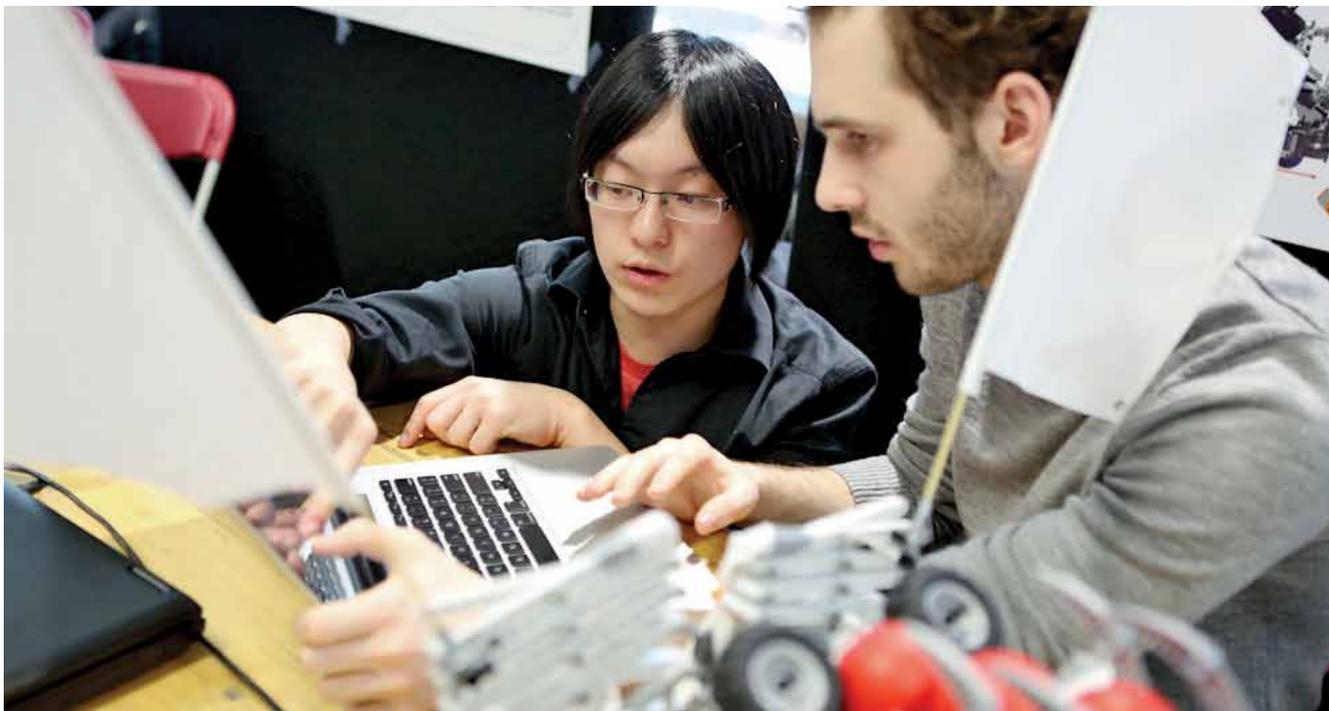
www.mcgill.ca/engineering/future-students/how-apply



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Student Life

There are several student organizations to help ensure that school life maintains a good mix of work and pleasure.

- **Engineering Undergraduate Society (EUS)**
www.mcgilleus.ca/
- **Engineers Without Borders**
- **Electrical, Computer, & Software Engineering Student Society (ECSESS)**
Represents all students in Electrical, Computer and Software Engineering (ECSE)
- **Institute of Electrical and Electronics Engineers (IEEE) McGill student branch**
Dedicated to the development of professional skills
- **Promoting Opportunities for Women in Engineering (POWE)** www.mcgill.ca/engineering/current-students/undergraduate/student-life/powe

Industries

Computer engineers can work in an impressive variety of occupations in the high-technology sector. Computer engineers, or computer hardware engineers, research, design, develop, test, and oversee the manufacture and installation of computer hardware, including computer chips, circuit boards, computer systems, and related equipment.

These are some common industries that require computer engineers:

- Information & Communications Technologies
- Robotics
- Energy & Utilities: Alternative Energy, Hydro, Gas, Water
- Engineering & Management Consulting
- Finance & Insurance
- Pharmaceuticals, Biotechnology and Medical Devices
- Scientific and Technical Services
- Transportation

Useful Resources

- **McGill Engineering Student Affairs Office (SAO)**
Housed in the Engineering Student Centre; Academic Advisors provide assistance and information on program planning and academic success.
- **McGill Engineering Career Centre (ECC)**
Resources, information, job postings and links for engineering students
- **myFuture** - Job postings McGill students
- **The Engineering Institute of Canada**
Engineering Career Network

Professional Organizations

- **Engineers Canada**
The national organization of the 12 licensing bodies that regulate the practice of engineering in Canada
- **Ordre des ingénieurs du Québec**
The regulating body for Engineers in Quebec
- **Institute of Electrical and Electronics Engineers (IEEE)**
IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.
- **Association for Computing Machinery**
Educational and scientific computing society that delivers resources to advance computing as a science and a profession.

Contact Us

McGill Engineering Student Centre (MESC)
Student Affairs Office, Career Centre, Peer Tutoring Services
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Montreal, Quebec H3A 0E8

Student Affairs Office (SAO):
Telephone: 514-398-7257
Email: info.faceng@mcgill.ca
www.mcgill.ca/engineering/current-students/undergraduate/mesc

Engineering Career Centre (ECC):
Telephone: 514-398-8100
Email: careers4engineers@mcgill.ca
www.mcgill.ca/careers4engineers



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