

# Bachelor of Engineering Mechanical Engineering

Faculty of Engineering



## What is **mechanical engineering**?

Mechanical engineers work on the conception, design, and use of systems in many aspects of life—from aircrafts and space shuttles to bicycles and espresso machines. Typical application areas include aerospace, energy, manufacturing, machinery, and transportation. The broad nature of the discipline leads to a high demand for mechanical engineers, but some mechanical engineers later follow other career paths, including sales, finance, and management.

## Is this program **for me**?

Mechanical engineers are curious about how things work and how to make them work better. This includes devices—anything from airplanes to mechanical hearts—but also processes like energy conversion or manufacturing systems. They typically enjoy design, working in

teams, and using mathematics and physics to find creative new solutions to the problems around them.

[the program curriculum, ETEMC \(en ,gre-US\)/MCID 44 BDC BT](#)

for its strong analytical foundation that provides students with the problem-solving skills required by numerous careers. The in-class training is complemented by a host of extra-curricular opportunities through which students pursue their individual interests.



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## How do I apply?

Admissions information:

[www.mcgill.ca/undergraduate-admissions/apply](http://www.mcgill.ca/undergraduate-admissions/apply)

## What can I do when I graduate?

Mechanical engineers work in the design, manufacturing, and operations groups of countless industries, including aerospace, automotive, biomechanics, energy and power conversion, robotics, manufacturing, pulp and paper, heavy machinery and household appliances. Mechanical engineers often go on to become excellent project managers or company executives.

Recent graduates from the program have gone on to careers in a variety of industries including:

### **Bell Helicopter**

Helicopter design/manufacturing

### **Bombardier Aerospace**

Software Development Engineer

### **CAE**

Design/manufacturing of flight and other simulators

### **Deloitte**

Financial consultant

### **Kiewit**

Construction engineering

### **Kinova Robotics**

Robot design/manufacturing