

# MECHANICAL ENGINEERING

Is it for you?

## DID YOU KNOW THAT...

- ⚙️ The snowmobile, a highly popular recreational vehicle in winter, was invented in Quebec.
- ⚙️ The first braille printer, the Convento-Braille, was designed by a Canadian who was born blind.

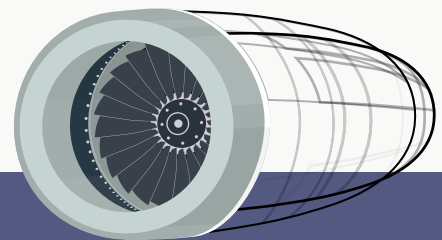
His company adapted the system for IBM computer software, the precursor of the braille software that is now used.



Do you see things that could be improved or optimized on machines?



Do you repair every mechanical object you can get your hands on?



## WHAT DO THESE ENGINEERS DO?

Conduct studies on the feasibility, design, operation and performance of mechanisms and systems.

Analyze stresses (force, temperature, vibration, pressure) on mechanisms, machines and installations.

Conduct applied research and simulations on computers to solve problems with energy use, facility configuration, and mechanical design.

Participate in the design and oversee the development of work plans by suggesting the materials that should be used and the ideal manufacturing method.

Supervise tests on machine prototypes, pilot plants, and products to check whether they run according to the technical specifications.

## WHERE DO THESE ENGINEERS WORK?

- Manufacturing sector
- Aerospace sector
- Building industry
- Energy sector and consulting engineering
- Work for themselves
- Consulting engineering firms
- Manufacturing companies
- Federal and provincial government
- Aerospace industry
- Paper pulp, paper and cardboard plants

## QUEBEC MECHANICAL ENGINEERING AT THE HEART OF INNOVATION

**3D scanner for large objects**  
This scanner provides instant 3D images of large objects such as cars and won the award for invention of the year from NASA in 2010.



## AVERAGE SALARY

**\$116,160**

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Compensation Survey of  
Engineering Employees  
and Graduates in  
Québec, 2022

PLACE FOR YOU.

**ing.**  
Ordre  
des Ingénieurs  
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**Bachelor's degree  
in mechanical engineering  
4 years**



## ENDLESS OPPORTUNITIES IN ENGINEERING!

Learn more about mechanical engineering and other kinds of engineering