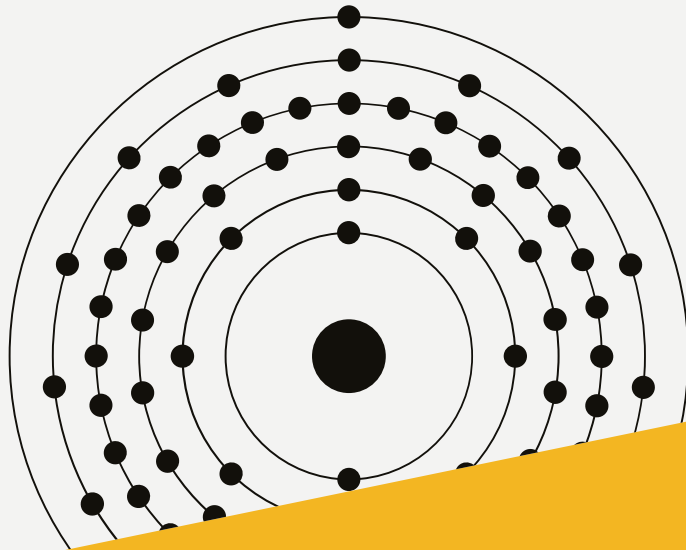


MATERIALS AND METALLURGICAL Engineering

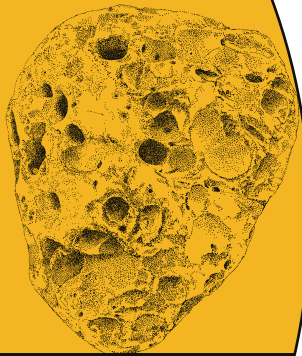
Is it for you?



DID YOU KNOW THAT..

The main metals processed in Quebec are aluminum, steel, cast iron, copper, zinc and ferroalloys.

One of the rarest metals on Earth is iridium, a metal that is thought to have been brought here from outer space, because it is abundant on meteorites and very rare in the Earth's crust.



Does turning metals into useful objects sound interesting to you?



Would you like to know the secrets of metals and their properties?



Source :  REPÈRES en matière GRICS

WHAT DO THESE ENGINEERS DO?

Conduct research on the behaviour and crystalline structure of materials at certain temperatures and in conditions involving friction and extreme corrosion.

Conduct studies on metals and alloys: their crystalline structure, dispersion of alloy elements in the basic metal, the presence of impurities, cracks and other flaws.

Estimate the fatigue lives of materials and structures according to different manufacturing processes.

Study the effect of radiation on materials in space and in nuclear reactors.

Conduct research on metal and ceramic combinations to form complex structures and composite materials.



WHERE DO THESE ENGINEERS WORK?

- Consulting engineering firms
- Steel companies
- Academic institutions
- Federal and provincial government
- Testing and analytical laboratory services
- Rolling stock equipment manufacturing plants
- Aluminum and metal industry
- Aerospace industry

QUEBEC MATERIALS AND METALLURGY ENGINEERING AT THE HEART OF INNOVATION

Detection of legionella in the water cooling systems of industrial processes
A more advanced detection system for these bacteria.



(IN FRENCH)

AVERAGE SALARY
\$145,726

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

PLACE FOR YOU



BACHELOR'S DEGREE IN MATERIALS AND METALLURGY ENGINEERING
4 YEARS



ENDLESS OPPORTUNITIES IN ENGINEERING!

Learn more about materials and metallurgy and other kinds of engineering