

Why choose Civil Engineering?



To Improve our Natural and Built Environments!

Civil Engineers are responsible for the planning, design, construction, and management of the built environment and infrastructure systems that provide essential services to human life. These systems are the nation's buildings and bridges, power producing plants, water supply systems, coastal areas, our homes, and so much more. Civil Engineers are also responsible for the compatibility of the infrastructure with the natural environment: the ground, water, and air.

What will you learn?

The Department of Civil Engineering provides a breadth of training in:

- **Environmental Engineering:** air and soil pollution, wastewater treatment, and waste disposal.
- **Geotechnical Engineering:** soil mechanics, foundation design, slopes, dams, and tunnels.
- **Hydrotechnical Engineering:** fluid dynamics, coasts, lakes, and rivers, waves, sediment transport.
- **Structural Engineering:** analysis and design, sustainable materials, infrastructure rehabilitation.

What can you do?

Civil Engineering graduates:

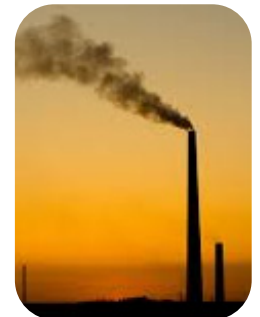
- + Are employed as consultants to design infrastructure around the world.
- + Work in water treatment, energy and exploration, construction, mining, public policy and so much more!
- + Are in the highest demand amongst engineering disciplines in Canada.
- + Are developing innovative solutions to the world's biggest problems.

Combating Climate Change:

Civil Engineers are at the forefront of international efforts to reduce the impacts of climate change on our communities while also developing sustainable and resilient solutions to combat its effects.

This means:

- ◆ Designing for more extreme events.
- ◆ Ensuring we have clean drinking water.
- ◆ Accounting for thawing permafrost.
- ◆ Protecting our coastlines from flooding.
- ◆ Developing long-term waste-disposal sites.
- ◆ Building with sustainable materials.



Learn more @ civil.queensu.ca