

Nuclear Engineering

Nuclear engineering is more than nuclear power plants. It's also about space, radiation, security, big data, energy policy and more.

Nuclear power provides 50 to 60 per cent of Ontario's electricity needs yet emits no CO². This mitigates climate change.

Nuclear engineering is about software-based design analysis and advances, as well as plans for radioactive waste.

Future nuclear reactors—including small and micro modular reactors—are being designed on an on-going basis.

Nuclear power is about the world's use of energy, mitigating the impact of climate change, energy security and sustainability.

Radioactive materials and radioisotopes are essential to many industries and facilities, including hospitals for cancer treatment and diagnostics.

There's always a need for engineers with management skills. We offer an innovative management program that you can apply for during your third year.

Gain real-world experience with a co-op and/or internship placement, and experiential learning in our labs.

This program is accredited by the Canadian Engineering Accreditation Board.

Prepare for an exciting and challenging career as a Nuclear Engineer.



What will I study?

Courses include:

- Engineering Graphics and Design
- Nuclear Fuel Cycles
- Nuclear Physics
- Nuclear Plant Design and Simulation
- Nuclear Safety
- Radioactive Waste Management Design
- Radiation Protection
- Reactor Control
- Thermodynamic Cycles

What can I do with my degree?

- Nuclear Engineer or Scientist
- Control and Instrumentation Engineer
- Energy Engineer
- Fuel design and manufacturing
- International nuclear and energy technology management
- Nuclear Commissioning, Regulation and Standards Specialist
- Nuclear Energy Plant Design and Operation Consultant
- Nuclear Policy, Advocacy, Influencer
- Project management
- Waste management

Want more information?


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