

# Manufacturing Engineering

**Will** access to 3D printers change the way consumers are able to quickly make their ideas come to life?

**With** advances in robotics and automation, how can manufacturers redesign their facilities to be more cost effective?

**How** will additive, subtractive and traditional manufacturing reshape the manufacturing industry?

**How** does the need for environmentally friendly processes drive the future of manufacturing?

This unique program emphasizes the design, development, planning, selection, improvement and application of advanced manufacturing processes.

You'll learn about advances in materials and composites, robotics, automation, and intelligent controls while considering the integration between tools, processes, and equipment with cutting-edge manufacturing facilities and systems.

Accredited by the Canadian Engineering Accreditation Board, graduates from this program meet the academic requirements for registration as a licensed professional engineer in Canada.

**One of the only fully accredited programs of its kind in Canada, our program focuses on the design and improvement of high-tech systems for the production, and manufacturing of products.**



## What will I study?

- Computer-Aided Design
- Design for Manufacturing
- Engineering Economics
- Integrated Manufacturing Systems
- Kinematics and Dynamics of Machines
- Life-Cycle Engineering
- Manufacturing and Production Processes
- Principles of Material Removal Processes
- Quality Control
- Reliability and Maintenance
- Robotics and Automation
- Thermo-Mechanical Processing of Materials

Your final-year Capstone project emphasizes communication, teamwork and project management.

## What can I do with my degree?

- Economic analysis and accounting
- Manufacturing system and facility design
- Operations analysis and management
- Product design and development
- Systems engineering and integration

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## Want more information?

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