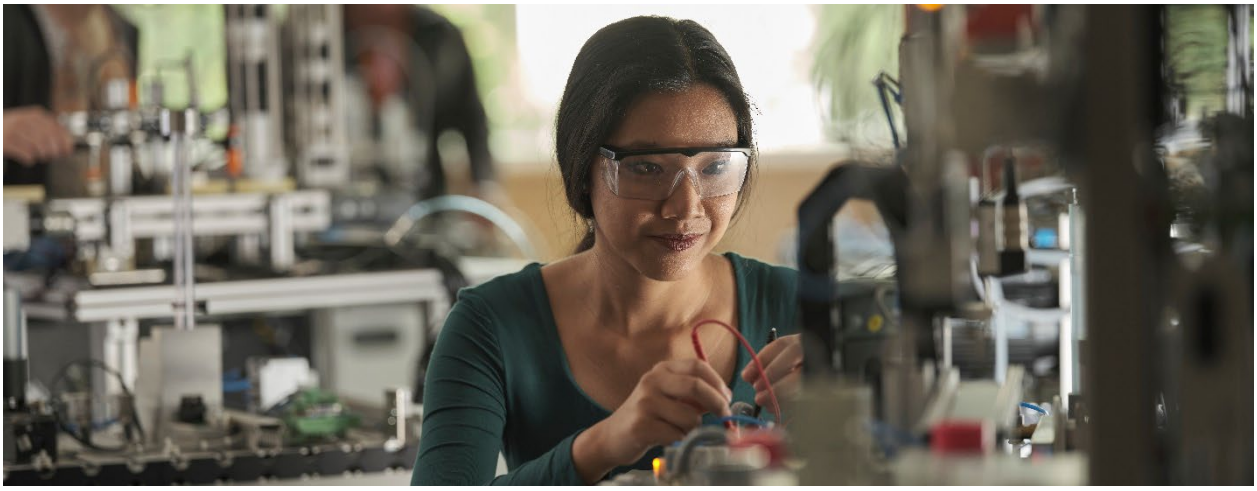
Bachelor of Engineering – Electrical Engineering



Meet our students

Our students spend approximately 40% of their time working in labs, participating in one of the few electrical engineering programs in Canada that follows the CDIO Initiative (Conceive, Design, Implement and Operate). This approach to learning allows these students to develop both theoretical and practical skills. In their third year, students have the option to specialize in either energy or mechatronics. Through this cutting-edge program, our students are learning in demand skills that will guide them towards being the leaders of tomorrow.

Learn more about the classes these students take by visiting the program webpage.

Core competencies and skills

- Performing as an effective team member and leader in collaborative and multi-disciplinary settings.
- Demonstrating proficiency in the techniques, skills, and tools necessary for electrical engineering practice with an understanding of the associated limitations.
- Communicating technical concepts and issues effectively with both technical and non-technical audiences.
- Demonstrating ethical conduct, accountability, and equity consistent with the requirements of the profession.
- Incorporating economics, business, entrepreneurship, and project management skills, into practices of engineering.

Work term availability

- Summer (May – August)
- Optional co-op work term (up to 16 months), taken at the end of Year 3 (May).

Work term capabilities

- Creating sustainable solutions through applications of mathematical, scientific, and fundamental engineering concepts, methods, and techniques.
- Solving complex problems, using appropriate knowledge and skills to identify, formulate, and analyze feasibility, technology, environmental impact, and economic assessments.
- Validating conclusions from investigations of complex engineering problems by methods that include relevant experimentation, data collection, analysis, interpretation, and synthesis.
- Designing a system, component, or process that meets regulatory and industry standards and considers health and safety risks, economic, environmental, cultural, and social impacts.
- Analyzing the impact of electrical engineering solutions in a global, economic, societal, environmental, and public safety setting.

Employer resources

- Employer webpage
- Program information
- Program course schedule

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