

Sheridan

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Electromechanical Engineering Technician – Mechatronics and Robotics

Ontario College Diploma | 2 years
Davis Campus (Brampton)



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Learn how to install, program and maintain smart automation technologies.

Integrate automation with smart technology

Learn to install, program and maintain the mechatronics and robotics that power manufacturing of today and tomorrow. At Sheridan, you'll learn much more than electromechanical systems or mechanical automation. You'll also learn how to integrate mechatronic engineering, machine intelligence, robotics and industrial connectivity to build systems of Industry 4.0 and emerging 5.0 workplaces.

Learn the three pillars of modern smart systems

Throughout your two years of studies, you'll learn concepts that connect the three core pillars of modern smart systems:

- Machine intelligence (programming, cyber-physical systems, networking and AI)
- Automation (control systems, sensors, PLCs and system integration)
- Advanced manufacturing (robotics, machine vision, simulation and digital twins)

Work with real-world industry tools and systems

Theory is reinforced through hands-on lab assignments, simulations and a team capstone project. When you graduate, you'll already have experience working with various industry tools and systems. You'll also be eligible to earn certifications such as Siemens Mechatronic Systems Certification Program (SMSCP) Level 1, ABB Robotics STEM Certification and FANUC Certified Education Robot Training.

Career opportunities

Sheridan's Electromechanical Engineering Technician – Mechatronics and Robotics diploma program is designed to prepare you for entry-level employment in manufacturing, automation, robotics and related industries.

Roles you may work in after graduation include:

- Robotics Technician
- Automation Technician
- Mechatronics Systems Technician
- Intelligent Systems Technician
- Industrial IoT Technician
- Automation Integrator
- Robotics Support Specialist

Courses

Some of the courses you can expect to take in your program

- Microcontrollers and Embedded Systems
- Industrial Robotics
- Design Fundamentals and Digital Twins
- Industrial IoT and Machine Vision
- System Integration and Networks
- Emerging Technology Capstone Projects

Admission requirements

Program eligibility

Ontario Secondary School Diploma or equivalent, including these required courses:

- English, Grade 12 (ENG4C or ENG4U)
- One Math, Grade 12 (U) or Math for college technology (MCT4C) or Math Grade 11 Functions (MCR3U) or Functions and Applications (MCF3M)

OR

Mature student status

If you're at least 19 years old and missing any of the requirements above, you can meet these requirements by applying as a mature student. Mature students may be required to complete tests in English, math and/or science or take a FREE preparatory course through Sheridan's Academic Upgrading program.

Pre-admission testing and upgrading: Applicants who do not meet the admission requirements will be invited to complete pre-admission tests in mathematics and/or English.

Applicants lacking the mathematics admission requirement for this program may wish to upgrade their mathematics through Sheridan's FREE Academic Upgrading program prior to application.

Applicant selection

Eligible applicants are selected on the assessment of their previous academic achievement (the average of their six highest senior-level credits, including required courses).

Applicants who do not meet the admission requirements for this program may be advised individually regarding other related programs.

English language proficiency

All applicants whose first language is not English must meet Sheridan's English proficiency requirements.

Refer to the website for full admission requirements.

How to apply:

5 easy steps

- 1 Find your program
- 2 Check the admission requirements
- 3 Apply online
- 4 Submit your documentation
- 5 Accept your offer

Ready to get started?

sheridancollege.ca/apply



International students

Find out more about...

- Post-graduation work permit (PGWP) eligibility
- Admission requirements
- English language proficiency requirements
- Fees and financial aid
- Provincial Attestation Letters (PALs)

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