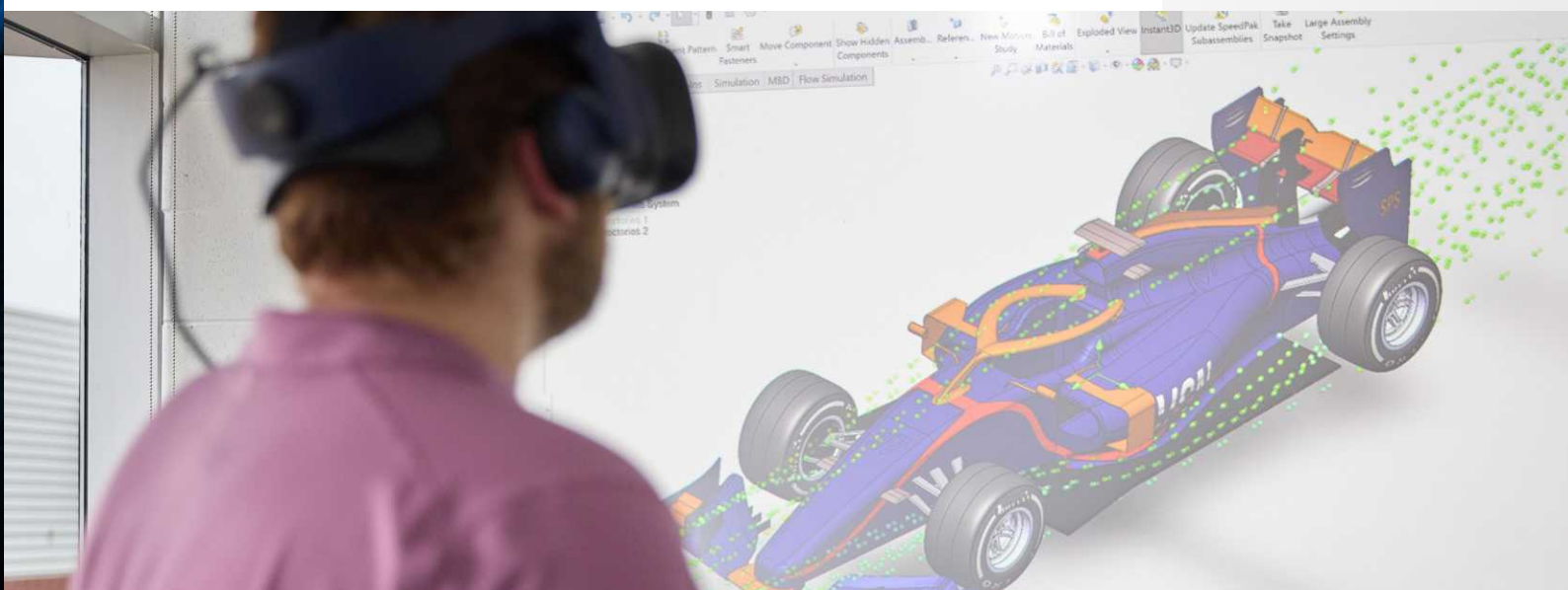# Mechanical Engineering Technology – Design

Ontario College Advanced Diploma | 3 years

Scan here

Master your skills in design, advanced Manufacturing, and simulation.

Get training for a specialized career in automation and design

After building a strong foundation of mechanical engineering knowledge, you'l study more specialized design functions used in aerospace, energy, automotive, biotechnology, robotics and building facilities. You'll also gain an understanding of niche concepts like advanced CAD/CAM, simulation, automation, HVAC, VR, robotics, additive manufacturing and AI in design analysis function.

Gain real-world experience and build connections

Sheridan's labs simulate the workplace, but they can't completely replicate it. Put your new mechanical engineering skills to work for our industry partners in two 12-month paid co-op terms: one after your third semester and another in your third year of studies. You'll also collaborate with peers to help our partners resolve a real-world issue in your capstone research project.

Earn credits towards a degree or other certification

As a graduate of this program, you'll have the opportunity to transfer into the third year of Sheridan's Honours Bachelor of Mechanical Engineering degree (some bridge courses will be required.) You'll also have completed all of the academic requirements of personal certification with the Ontario Association of Certified Engineering Technicians and Technologists (OACETT).

Career opportunities

Our Mechanical Engineering Technology – Design program is built to give you the technical knowledge and hands-on experience today's employers look for. Upon graduation, you'll be qualified to perform engineering work in the industrial and manufacturing sectors.

Potential fields of work include:

- Additive Manufacturing/CAD/CAM
- Plant Operations
- Process Piping and HVAC
- Product Development and Testing
- Quality Control
- Design Engineering
- Design Analysis
- Manufacturing Engineering

Courses

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

- Design Simulation and Analysis
- Dynamics of Machines
- Building Facilities Layout (HVAC)
- Engineering Capstone Project
- Kinematics of Machines
- Sustainable Design

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)

sheridancollege.ca/international

Admission requirements

Program eligibility

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

- One English, Grade 12 (ENG4C or ENG4U)

plus

- One Math Grade 12 (U) or Math Grade 12 Mathematics for College Technology (MCT4C) or Math Grade 11 Functions (MCR3U) or Functions and Applications (MCF3M)

or

Mature student status.

Applicants who do not meet the admission requirements will be invited to complete pre-admission tests in mathematics and English. Applicants asked to take the test are considered for admission to Term 1 contingent on receiving a minimum grade of 60% in both the pre-admission mathematics/English tests.

Applicants lacking the Mathematics admission requirement for this program may wish to upgrade their Mathematics prior to application. For upgrading information, please contact us.

Applicants may also consider applying to our Technology Fundamentals program. Successful completion of this program will meet the Mathematics requirement and will provide a broader sense of the Science and Technology fields.

Applicant selection

Eligible applicants will be selected on the basis of their previous academic achievement (the average of their six highest senior-level credits, including required courses), and/or results of pre-admission testing.

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

English test

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

Refer to the website for full admission requirements.