ARE YOU READY TO MAKE YOUR FUTURE?

Learn from leading researchers in our world-class facilities, state-of-the-art labs, and broad, interdisciplinary collaborations.

Build your network through our extensive CO-OP program and our strong connections to industry.

Turn your ideas into reality through our entrepreneurship and design ecosystem, which features advanced prototyping and manufacturing facilities, competitive teams, entrepreneurial competitions, start-up growth programs, and more.

Live a transformative and fulfilling university experience by studying in English or French at uOttawa.

Choose from various program options to help you acquire the skills you need to better prepare for the many challenges and opportunities you will face in today’s— and tomorrow’s— job market.

Study right in the heart of the National Capital Region, which is also the number one tech hub in Canada.
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STUDY IN THE NATIONAL CAPITAL REGION

Ottawa + Play + Work + Grow = TALENT

1,700+ knowledge-based companies with 68,000+ employees
44+ national and academic research labs
Over $4.7 billion invested in Ottawa technology companies in the last ten years

800 kilometres of bike paths
430+ kilometres of cross-country ski trails
7.8 kilometres of the world’s largest skating rink, the Rideau Canal, Ottawa’s very own UNESCO World Heritage Site

#3 in quality of life for large cities in North America, 19th globally
Ottawa is the least expensive Canadian city included in the Mercer rankings
Population of 1.3M

#1 for most educated workforce in Canada
#1 for most technology-intensive city in Canada
#1 for highest concentration of scientists and engineers in Canada, and #2 in North America after Silicon Valley

Source: Invest Ottawa, the Canadian Trade Commissioner Service & mercer.com
WHY CHOOSE uOTTAWA?

Learn or perfect your French
The University of Ottawa is the world’s largest French-English bilingual university and is among the top 10 universities in the world for a number of disciplines offered in French.

The Gee-Gee spirit
Whether football, basketball, hockey, soccer or volleyball, or any of our 35+ competitive or intramural sports is your game, everyone is a Gee-Gee!

Live and eat on campus
Our 10 on-campus residences provide comfort and convenience, allowing you to make friends while focusing on your studies. And, with 27 dining options on campus, diversity is guaranteed. Take your pick of more than a dozen cafés, the 24/7 Dining Hall, pubs, food trucks and more.

Get the support you need
Professors, support staff and mentors are committed to helping the student community thrive and succeed in achieving their personal and professional goals.
FACILITIES
JUST FOR YOU!

uOttawa Richard L’Abbé Makerspace
Invent, build and play at the uOttawa Richard L’Abbé Makerspace. This student-run space is equipped with 3D printers, Arduinos, CNC mills, Handibots, laser cutters and much more, allowing everyone to collaborate and build their dream projects for free!

Makerlab
The Makerlab offers a course-based laboratory setting focused on rapid prototyping technologies. University courses can include lab sessions at the Makerlab to give students a structured experience learning about many of the technologies available at the uOttawa Richard L’Abbé Makerspace.

Sandbox
The Sandbox provides a collaborative space for engineering students involved in small projects, pre-professional competitions and entrepreneurial projects.

Over 40 3D printers available for students to work on their design projects
STEM

Our new STEM (science, technology, engineering, mathematics) Complex is an interdisciplinary research and teaching facility designed to foster connections between different faculties, encourage new ways of thinking, enable experiential learning, and promote entrepreneurship. This state-of-the-art facility brings together departments from the faculties of Engineering and Science under the same roof.

Manufacturing Training Centre (MTC)
The Manufacturing Training Centre (MTC) provides training on a variety of traditional equipment, such as lathes, milling machines and saws, as well as on the latest processes, such as additive manufacturing. Students can register for free workshops throughout the year.

Brunsfield Centre
The Brunsfield Centre provides engineering students with tools and equipment to design, fabricate and test complex prototypes. Projects have included different types of vehicles, high-performance hybrid motor systems, highly fuel-efficient and off-road vehicles, as well as concrete toboggans, electrical energy storage and control systems.

John McEntyre Team Space
The John McEntyre Team Space provides pre-competitive teams involved in large-scale projects with the space and infrastructure required to succeed.

Simon Nehme Design Commons
This brand new pop-up space is open to student teams looking to brainstorm and develop their ideas.

The art piece Equilibrium, suspended in the STEM Complex, was created by a team of visual arts students and engineering students. The art piece is the result of an interdisciplinary collaboration that is a part of the STEAM project, which combines the arts with the STEM disciplines.

Students working on their prototype to showcase at Design Day in the Richard L’Abbé Makerspace.
WHY STUDY ENGINEERING OR COMPUTER SCIENCE?

Degrees that pay off

The average starting salary for engineering graduates is $68,000. The most common jobs for engineering graduates include:

- Consultant: $64,000
- Web developer: $69,000
- Software developer: $71,000
- Business analyst: $77,000
- Project manager: $81,000

The average starting salary for computer science graduates is $72,400. The most popular first jobs for computer science graduates include:

- Design engineer: $63,000
- Mechanical engineer: $64,000
- Electrical engineer: $69,000
- Project engineer: $71,000
- Software engineer: $73,000

Benefit from a high employment rate

91.4% of uOttawa engineering and 100% of uOttawa computer science alumn find jobs in their field within two years of graduating.

Source: Performance indicators, Ministry of Training, Colleges and Universities.

Source: payscale.com; ca.talent.com; ca.indeed.com
WHERE ARE OUR ALUMNI?

Our engineering and computer science alumni lead diverse and exciting careers. Here are just a few examples of our outstanding graduates and where they are working now.

Heather Abbott
BASc in Chemical Engineering (1993)
Partner at AFK Partners

Emilie Cobbold
BASc in Computer Engineering (2017)
Business & Integration Arch Specialist at Accenture

Tunch Akkaya
CEO and Co-founder at GameStrat

Anita Popescu
BSc in Computer Science (2019)
Photos Engineer at Apple

Daniel Lanthier
BASc in Computer Engineering (2005)
Engineering Manager at CircleCI

Elisha Pruner
BASc in Mechanical Engineering (2008) and MASc in Mechanical Engineering (2014)
Senior Software Developer at Realize Medical Inc.

Andre Richards
BSc in Computer Science and Management Information Systems (2011)
Software Development Manager at Amazon Web Services (AWS)

Ali Pourshahid
PhD in Computer Science (2014)
Front End Engineer at Amazon Web Services (AWS)

Jerry Zhang
BASc in Software Engineering (2019)
Software Developer at Mitel and Co-Founder of BubbleHR

Sarah de Carufel
BASc in Civil Engineering (2014) and MASc in Civil Engineering (2018)
Manager, Engineering Solutions at Giatec

"Engineering taught me problem solving, how to learn to learn, and also how to have the confidence to learn […] I never feel like there’s a problem we can’t solve; you have to break things down into goals that you work towards and you will get where you want to go.”
- Heather Abbott

“I was very fortunate because the program I picked was a mix between in depth computer science and engineering […] So I felt a lot more prepared going into the startup world than someone who is just an engineer or just in business. I felt I had a good balance of both. Where it has helped me specifically is understanding the fundamentals of all the tools and infrastructure that we use.”
- Andre Richards

Featured on the Make the Future podcast.
EXPERIENCE YOUR FUTURE CAREER AND HELP FUND YOUR STUDIES THROUGH THE CO-OP PROGRAM

Combine study and work experience

With the Co-operative Education (CO-OP) Program, you can gain hands-on experience in your field of study while completing your degree. CO-OP can be added to any of the eleven undergraduate programs offered by the Faculty. The University of Ottawa CO-OP program has been running for over 30 years, and is now the second-largest university program of its kind in Ontario, and the fifth-largest in Canada. uOttawa CO-OP also boasts a very high placement rate.

David Wen, a Civil Engineering student, working with PSPC on Parliament Hill in Ottawa.

Emmanuelle Keogh, a Biomedical Mechanical Engineering student, working at Agnico Eagle Mines in Nunavut.
Rosalyn Skiffington, a Mechanical Engineering student, did a placement at Oji Fibre Solutions in New Zealand.

As a Faculty of Engineering student, you can benefit significantly from the CO-OP program:

**Find work** (96% faculty placement rate for 2020*)

**Earn a salary** while completing your program. On average, engineering students earn 19$/h on average during first term, and 22$/h by their last CO-OP work term**

**Find a public or private sector employer** in Canada or even abroad

**Build your professional skills** and increase your knowledge

**Network with valuable contacts** who can help you kick-start your career

**Benefit from a quality program** that meets national criteria and standards and is approved by the Canadian Association for Co-operative Education

**Alternate between work and study terms.** Start working in the summer of your second year and then alternate between four-month work and study terms. Eight- and twelve-month work terms are also available

---

**Work-Study sequences**

The majority of students follow this sequence, although it can be adapted to suit your circumstances.

<table>
<thead>
<tr>
<th>Year of study</th>
<th>Fall</th>
<th>Winter</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Study</td>
<td>Study</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Study</td>
<td>Study</td>
<td>Work 1</td>
</tr>
<tr>
<td>3</td>
<td>Study</td>
<td>Work 2</td>
<td>Study</td>
</tr>
<tr>
<td>4</td>
<td>Work 3</td>
<td>Study</td>
<td>Work 4</td>
</tr>
<tr>
<td>5</td>
<td>Study</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* Based on 2020 CO-OP data

** Based on summer 2019 CO-OP data

"CO-OP helps you decide where you want to work [...] A lot of employers look at how a student thinks, and for them, creativity and critical thinking is something that stands out."

Melody Habbouche - Graduate, Computer Engineering (2019)
With the support of this scholarship, I traveled to Japan to work for Tokyo Gas for 8 months. I got to compliment my mechanical engineering education with hands-on materials science experience, while also learning about Japanese culture, making new friends, and traveling all over the country.

I recommend that all students take advantage of these incredible opportunities!

Nagma Mathur - Graduate, Mechanical Engineering (2020)
The University of Ottawa has one of Canada’s leading scholarship and bursary programs, with over $42 million in scholarships and bursaries distributed every year. In addition to the generous University program, engineering and computer science students have access to a wide range of admission scholarships offered by the Faculty of Engineering.

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Number</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAN’S MERIT SCHOLARSHIP</td>
<td>35</td>
<td>Depends on admission average;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$5,000 awarded for 95–100% and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$4,000 for 90–94.9%</td>
</tr>
<tr>
<td>DR. TYSEER ABOULNASR SCHOLARSHIP *</td>
<td>Variable</td>
<td>$2,000 to $2,500</td>
</tr>
<tr>
<td>ONTARIO PROFESSIONAL ENGINEERS FOUNDATION FOR EDUCATION SCHOLARSHIP *</td>
<td>One for a male student and one for a female student</td>
<td>$1,500</td>
</tr>
<tr>
<td>FACULTY OF ENGINEERING MEMORIAL SCHOLARSHIP *</td>
<td>7</td>
<td>$2,000</td>
</tr>
<tr>
<td>NORTEL FOUNDING SCHOLARSHIP FOR THE SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING (SITE)</td>
<td>2</td>
<td>$2,500 (minimum)</td>
</tr>
<tr>
<td>MERIT SCHOLARSHIP OF THE FACULTY OF ENGINEERING</td>
<td>Variable</td>
<td>$500 (minimum)</td>
</tr>
<tr>
<td>PHILIPPE ARVISAIS MEMORIAL SCHOLARSHIP FOR WOMEN STUDENTS IN ENGINEERING *</td>
<td>Variable</td>
<td>$1,000</td>
</tr>
<tr>
<td>UNDERGRADUATE RESEARCH OPPORTUNITY PROGRAM (UROP) SCHOLARSHIP</td>
<td>Variable</td>
<td>$1,000</td>
</tr>
<tr>
<td>FACULTY OF ENGINEERING’S MAKER AWARD</td>
<td>1</td>
<td>$10,000</td>
</tr>
<tr>
<td>See p. 12 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACULTY OF ENGINEERING’S MAKER AWARD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIO TINTO ALCAN PRIMARY METAL IN ENGINEERING SCHOLARSHIP</td>
<td>1</td>
<td>$3,000</td>
</tr>
<tr>
<td>ADOBE SYSTEMS CANADA SCHOLARSHIP *</td>
<td>Variable</td>
<td>$2,000 (minimum)</td>
</tr>
<tr>
<td>PHILIPPE ARVISAIS MEMORIAL SCHOLARSHIP FOR WOMEN STUDENTS IN ENGINEERING *</td>
<td>Variable</td>
<td>$1,000</td>
</tr>
<tr>
<td>DROSTE-KENNEDY ADMISSION SCHOLARSHIP IN CIVIL ENGINEERING</td>
<td>Variable</td>
<td>$500 (minimum)</td>
</tr>
</tbody>
</table>

* Application deadline is October 31, 2022
DEVELOP YOUR ENTREPRENEURIAL AND ENGINEERING DESIGN SKILLS

Curriculum focused on entrepreneurship
Students can add the Engineering Management and Entrepreneurship option, which is available for most of our undergraduate programs. We also offer a Master’s in Engineering Management for students who wish to pursue graduate studies.

Sharpen your entrepreneurial and communications skills through competitions
The Entrepreneurial Idea, Entrepreneurship Concepts and Launching Entrepreneurs annual competitions let you build and apply your knowledge, with $60,000 in prize money up for grabs. Design Day offers you the opportunity to showcase your engineering design projects. Many other competitions take place on campus through the Entrepreneurship Hub and the Telfer School of Management.

Maker Award
Do you have a passion for design, technology and prototyping? Do you love creating, innovating and discovering new ways of doing things? If so, you might be eligible to win the Faculty of Engineering’s Maker Award.

The $10,000 award has been created to recognize students with inspiring achievements in the fields of engineering, design and technology.

Simon Nehme Summer School in Engineering Entrepreneurship
This program leverages the growing entrepreneurial and innovative community at the University of Ottawa and in the Ottawa region. The School offers hands-on workshops and events, delivered by members of the entrepreneurial community as well.
as academia. Participants will learn about ideation, pitching, customer discovery, marketing, sales and legal issues for start-ups.

**Entrepreneurial CO-OP and internships**

As a CO-OP student at our Faculty, you can work on your entrepreneurial idea during a CO-OP work term. Imagine getting financial support to work on your own business plan! Or, if you prefer, you can try working in a start-up company by doing an entrepreneurial internship!

**Available funding for student initiatives**

Want to participate in pre-professional design competitions? Take part in conferences related to engineering or computer science? Create a new club? Organize a social gathering? Funding for such student projects and initiatives is now more accessible than ever, thanks to the support of the Centre for Entrepreneurial Engineering Design (CEED), the Brunsfield Centre, the Engineering Endowment Fund (EEF) and the Faculty of Engineering. These funds can be used by both undergraduate and graduate students from the Faculty of Engineering, to support any project or initiative which benefits the student body.

**Get ready to launch!**

The MakerLaunch program provides student and recent alumni entrepreneurs with the support necessary to fast track commercialization of uOttawa Engineering technologies, and launch new tech startups.
CLUBS AND COMPETITIVE TEAMS

Engineering Student Society (ESS) and Computer Science Student Association (CSSA)
The ESS and CSSA represent uOttawa Engineering students; these are your associations. Get involved in your student community! You will come to know your colleagues better by participating in the various activities and events put on by and for students. Find out more about the ESS at essaeg.ca and the CSSA at cssa-aei.ca

Other sub-associations and clubs include:
- Canadian Society for Civil Engineering (CSCE)
- Chemical Engineering Student Society (ChESS)
- Mechanical Engineering Students Society (MESS)
- Iron Otis
- uOttahack
- Engineering without Borders
- Jeux de Génie
- IEEE Women in Engineering

"After my first year, I became involved with the Engineering Student Society (ESS) in many capacities, including the executive team, in addition to participating in various engineering competitions and events. The opportunity to engage with others as well as create platforms for problem solving and get involved in the student community has helped me grow as a student and future engineer."
- Rukyya Badreldin
  Graduate, Civil Engineering (2019)
Check out our website for more details on associations and clubs:

engineering.uOttawa.ca/student-experience/clubs-and-competitive-teams
OUR PROGRAMS

Choose from eleven undergraduate programs, each offering top quality education in engineering and computer science. Not only will you be well prepared to practice your profession, but you will also be more than able to meet the ever-changing needs of society.

CUSTOMIZE YOUR DEGREE

Add an option to your program of studies

You can choose to add one of these two options to most engineering or computer science programs:

Engineering Management and Entrepreneurship option:
This option lets students develop their entrepreneurial spirit and their management skills. Learn about product development, financing, marketing and building a business plan. You can add this option to your program without having to add to the time to get your degree.

BSc in Computing Technology as a second degree:
In many areas—such as the automotive, aerospace and construction industries, integration of mechanical, electrical and computer engineering is very high. In a competitive job market, this option can make your resume stand out. It is offered as a second degree consisting of courses that are common to all programs and courses that can complement your specific engineering program.

You may also want to choose a specific option according to your choice of program. See the list of available options on each program’s page.

Graduate-level microprograms

Expand your career opportunities! You can complete one of these graduate-level microprograms as part of your undergraduate degree during your third or fourth year of studies:

Interdisciplinary Artificial Intelligence:
This microprogram lets you deepen your knowledge of machine learning and data science while reflecting on the ethical and societal implications of AI, to understand the capabilities and limitations of machine learning and to discover about current advances in application areas such as engineering, science, health, business, and education.

Cybersecurity:
This microprogram lets you deepen your knowledge of secure code development, applied cryptography, security awareness, security awareness and cyber protection, understand the design of security systems and their components and learn about secure communication and applying cryptography to e-commerce.

To learn more, go to engineering.uOttawa.ca/microprograms

PROFESSIONAL ACCREDITATIONS

All Engineering programs are accredited by the Canadian Engineering Accreditation Board of Engineers Canada.
www.engineerscanada.ca

The Honours in BSc in Computer Science and BASc in Software Engineering are accredited by the Computer Science Accreditation Council of CIPS.
www.cips.ca
The School of Electrical Engineering and Computer Science (EECS) is part of the Faculty of Engineering. This interdisciplinary school combines four cutting-edge programs. Having these closely-related programs together in one academic unit means that you benefit from professors with interdisciplinary knowledge gained from teaching in one or more of the four programs offered by the school.

<table>
<thead>
<tr>
<th>Program description</th>
<th>Electrical Engineering (ELG)</th>
<th>Software Engineering (SEG)</th>
<th>Computer Science (CSI)</th>
<th>Computer Engineering (CEG)</th>
<th>Data Science (CSI/MAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program</strong></td>
<td>Offers a solid foundation in mathematics and physics. Students learn about electricity, circuit theory and electronics to design communication devices, power generators, solid-state circuits, microelectronic devices and computing devices.</td>
<td>Studies the systematic design and development of largescale software within time and cost constraints. Students learn how to apply engineering principles through various stages: requirements analysis, measurement, modelling, validation, design, construction, testing, documentation, and management.</td>
<td>Combines the fundamental study of computation and information processing with its application to the world around us. Computer scientists build fast, reliable and secure software systems to organize, store and analyze information.</td>
<td>Combines fundamental principles from both electrical engineering and computer science, leading to more specialized studies in microprocessor-based systems, computer architecture, programming concepts, real-time systems and computer control in robotics.</td>
<td>Combines elements of mathematics, computer science and statistics. Students integrate principles from calculus, linear algebra and statistics with computer science fundamentals to organize, analyze, visualize and predict data.</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>BASc in Electrical Engineering and BSc in Computing Technology</td>
<td>Engineering Management and Entrepreneurship</td>
<td>Engineering Management and Entrepreneurship</td>
<td>Engineering Management and Entrepreneurship</td>
<td>Honours BSc in Computer Science and Honours BSc in Mathematics (Data Science)</td>
</tr>
<tr>
<td><strong>Examples of subject matter</strong></td>
<td>Circuit theory, electronics, telecommunications, networks, photonics, power generation, microwaves.</td>
<td>Software construction, requirements engineering, software design and architecture, analysis and design of user interfaces.</td>
<td>Data structures and algorithms, design and analysis of algorithms, artificial intelligence, WWW structures, techniques and standards, and databases.</td>
<td>Data structures and algorithms, design and analysis of algorithms, artificial intelligence, WWW structures, techniques and standards, and databases.</td>
<td>Data structures and algorithms, databases, design and analysis of algorithms, data mining, data visualization, artificial intelligence and machine learning.</td>
</tr>
</tbody>
</table>
Computer Science at the School of Electrical Engineering and Computer Science combines the study of computation and information processing fundamentals with their application in the world around us. Computer scientists build fast, reliable, scalable and secure software systems to organize and analyze information. The honours curriculum comprises advanced topics in databases, artificial intelligence, computer graphics, security, distributed computing and algorithm design, culminating in an honours project. This program teaches graduates how to use their creative and innovative talents to conceive, design and implement software systems. The French Immersion Stream is now available to all students in the Computer Science program. Our degrees are very flexible and include options, minors, and a major, which can be used to explore connections between computer science and many other fields of study.

Career opportunities
Software technologies and systems developer in many diverse fields, including entertainment, government and business.

Examples of courses in Computer Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSI 4139</td>
<td>Design of Secure Computer Systems</td>
</tr>
<tr>
<td>CSI 3140</td>
<td>WWW Structures, Techniques and Standards</td>
</tr>
<tr>
<td>CSI 4106</td>
<td>Introduction to Artificial Intelligence</td>
</tr>
<tr>
<td>CSI 4142</td>
<td>Fundamentals of Data Science</td>
</tr>
<tr>
<td>CSI 4118</td>
<td>Computer Networks Protocols</td>
</tr>
<tr>
<td>CSI 4108</td>
<td>Cryptography</td>
</tr>
<tr>
<td>CSI 3120</td>
<td>Programming Language Concepts</td>
</tr>
<tr>
<td>CSI 2372</td>
<td>Advanced Programming Concepts with C++</td>
</tr>
<tr>
<td>CSI 2110</td>
<td>Data Structures and Algorithms</td>
</tr>
<tr>
<td>CSI 4141</td>
<td>Real-Time Systems Design</td>
</tr>
<tr>
<td>CSI 4130</td>
<td>Computer Graphics</td>
</tr>
</tbody>
</table>

Undergraduate programs (bachelor’s degrees)

- Honours BSc in Computer Science
- Honours BSc in Computer Science, Management and Entrepreneurship Option
- Honours BSc in Computer Science, Data Science option
- Joint Honours BSc in Computer Science and Mathematics
- Major in Computer Science
- Minor in Computer Science*
- Minor in Computer Science for Scientists*

*Complimentary program offered only as a second discipline. Registration starts in second year.

The French Immersion Stream
The French Immersion Stream (EFS) allows you to take one third of your courses in French. You choose which courses to take in French and which to take in English. If you choose to take a minimum number of French courses, you could qualify for a $1,000 French Studies bursary.

Accelerated Stream
You can complete your Honours BSc with Specialization in Computer Science and your Master of Computer Science within five years with the Accelerated Stream.
DATA SCIENCE (CSI/MAT)

Every day all over the world, large amounts of data are generated by business, scientific and social activities. Data-driven approaches to decision making in areas as diverse as medicine, business, sports, advertising, and entertainment are now essential. Data Science is the study, application, and development of methods to learn from this data. These are essential to understand, predict, and make improvements in management strategies, products, services, advertising campaigns, public health and safety, and many other areas. These methods combine elements of mathematics, computer science and statistics. Students in this program will obtain significant “hands-on” experience through various projects and a Data Science Laboratory.

Career opportunities

- Data scientist
- Business intelligence analyst
- Public policy development
- Artificial intelligence

Examples of courses in Data Science

MAT 3375 Methods of Machine Learning
SDS 3386 Data Science Lab
CSI 4106 Introduction to Artificial Intelligence
CSI 4142 Fundamentals of Data Science

Undergraduate programs

- Honours BSc in Computer Science and Honours BSc in Mathematics (data science)

This innovative and unique 5-year integrated program is offered in both English and French along with the French Immersion Stream.

“In order to stay relevant, you have to have a deep understanding of the theory behind algorithms; this is precisely the aim of our data science program. We have created the undergraduate program that we all would have taken.”

Marcel Turcotte
Professor, School of Electrical Engineering and Computer Science
Software engineering is a CO-OP only program that emphasizes innovation and teamwork to develop practical, solution-driven thinking. During their fourth-year project, students in this program can form teams and leverage their work experience to create real applications; some students even start their own companies. They learn how to apply engineering principles—including rapid prototyping, requirements analysis, system modelling, design, implementation, testing, and project management—to develop software. Software engineers are key professionals in fields such as high tech, finance, telecommunications, government, health care, transportation, and entertainment. The French Immersion Stream is available to students who want to continue their French immersion studies during their university career.

**Career opportunities**
- Software engineer
- Systems architect
- Computer security analyst
- Quality assurance engineer
- Video game designer
- Mobile application developer
- Systems analyst
- User interface designer
- Telecommunications engineer

**Examples of courses in Software Engineering**

- SEG 3101  Software Requirements Analysis
- SEG 3102  Software Design and Architecture
- SEG 3103  Software Quality Assurance
- SEG 3125  Analysis and Design of User Interfaces
- SEG 4135  Cloud Systems and Networks
- SEG 4145  Real Time and Embedded Software Design

**Undergraduate programs (bachelor’s degrees)**

- BASc in Software Engineering (CO-OP)
- BASc in Software Engineering (CO-OP), Engineering Management and Entrepreneurship Option

“Software Engineering is a constantly changing field with new technologies emerging all the time. My program gives me the tools, experience and foundational knowledge to be able to embrace these changes and any future changes so that I can always stay ahead in my career.”

- Ian Desson
- 4th Year, Software Engineering
Building on a solid foundation of traditional engineering skills, this program covers many different aspects of computer software and hardware, and allows for more specialized studies in microprocessor-based systems, computer architecture, programming concepts, real-time operating systems, software engineering, and robotics. This program provides multiple paths to diverse careers.

Examples of courses in Computer Engineering

- CEG 3156 Computer Systems Design
- CEG 4158 Computer Control in Robotics
- CEG 4166 Real-Time Systems Design
- CEG 4316 Digital Image Processing
- CEG 4188 Higher Layer Network Protocols
- CEG 4186 Wireless Networks
- CEG 4190 Computer Network Design

Undergraduate programs (bachelor’s degrees)

- BASc in Computer Engineering
- BASc in Computer Engineering, Engineering Management and Entrepreneurship Option

Consult the full course sequence at engineering.uOttawa.ca. All courses are offered in English and most courses are available in French.
ELECTRICAL ENGINEERING (ELG)

Electrical engineering is at the heart of today’s exciting advances in technology. With five technical specializations—communications, systems, electronics, microwave and photonic, and power and sustainable energy—our curriculum will enable you to influence how the world’s communities communicate, generate sustainable energy, and cure diseases. As an electrical engineer, you will work with other engineers or scientists on emerging technologies. The Engineering Management option will provide you with the necessary skills to pursue entrepreneurial activities and start your own technology-related business. The double degree program—BASc in Electrical Engineering and BSc in Computing Technology—will put you at the intersection of two areas that propel technological development.

Career opportunities

- Electronics and chip designer
- Electromagnetics engineer
- Communications engineer
- Signal-processing engineer
- Product engineer
- Automation engineer
- Avionics engineer
- Biomedical engineer
- Power systems and renewable energy engineer

Examples of courses in Electrical Engineering

- ELG 4115 Microwave Circuits
- ELG 4117 Optoelectronics and Optical Components
- ELG 4126 Sustainable Electrical Power Systems
- ELG 4118 Wave Propagation and Antennas
- ELG 4179 Wireless Communication Fundamentals
- ELG 4159 Integrated Control Systems
- ELG 4178 Optical Communications and Networking
- ELG 4125 Electric Power Transmission, Distribution and Utilization

Undergraduate programs (bachelor’s degrees)

- BASc in Electrical Engineering
- BASc in Electrical Engineering, Engineering Management and Entrepreneurship Option
- BASc in Electrical Engineering and BSc in Computing Technology

Consult the full course sequence at engineering.uOttawa.ca. All courses are offered in English and most courses are available in French.
Examples of courses in Physics and Electrical Engineering

- **GNG 1103** Engineering Design
- **PHY 2311** Waves and Optics
- **PHY 3355** Statistical Thermodynamics
- **PHY 4370** Quantum Mechanics
- **PHY 4382** Introduction to Solid State Physics
- **ELG 2138** Circuit Theory I
- **ELG 3126** Random Signals and Systems
- **ELG 4115** Microwave Circuits
- **ELG 4126** Sustainable Electrical Power Systems

Undergraduate programs (bachelor’s degrees)

- Honours BSc with Specialization in Physics and BASc in Electrical Engineering

To be admitted to this program, applicants must submit their application to the Faculty of Science.

Consult the full course sequence at engineering.uOttawa.ca.
All compulsory courses are offered in English and in French.

“...What really makes this program special is the community of students around it. uOttawa Engineering students have created a family who seek to help each other succeed in life and in their academic field.”

- Madison Smrtnka
4th year, Physics and Electrical Engineering
Chemical engineering is at the intersection of many disciplines, linking knowledge of basic and applied sciences, economics, and health and safety. Chemical engineering graduates use a series of operations to sustainably process raw natural materials into finished products. They work in any number of industries and during their careers, they may face a variety of challenges, such as optimizing processes and monitoring pollution, converting waste materials into renewable energy, processing foods and drugs, and manufacturing new materials.

**Career opportunities**

- Chemical engineer
- Process engineer
- Petrochemical engineer
- Biotechnological engineer
- Environmental engineer
- Biomedical engineer

**Examples of courses in Chemical Engineering**

- **CHG 3112** Process Synthesis, Design and Economics
- **CHG 3316** Transport Phenomena
- **CHG 3335** Process Control
- **CHG 4244** Plant Design Project
- **CHG 4305** Advanced Materials in Chemical Engineering
- **CHG 4307** Clean Processes and Sustainable Development
- **CHG 4343** Computer-Aided Design in Chemical Engineering
- **CHG 4381** Biochemical Engineering

**Undergraduate programs (bachelor’s degrees)**

- BASc in Chemical Engineering
- BASc in Chemical Engineering, Engineering Management and Entrepreneurship Option
- BASc in Chemical Engineering, Environmental Engineering Option
- BASc in Chemical Engineering and BSc in Computing Technology

Consult the full course sequence at engineering.uOttawa.ca. All courses are offered in English. French courses are available in first and second year, and are very limited in third and fourth year.

“...My program allows me to work in an exciting field where I can use my knowledge and apply it to industry. I am learning in a stimulating environment both on the theoretical and practical level, which will definitely help me in my future career.”

- Anick St-Denis
4th year, Chemical Engineering
Learn how living organisms grow and develop, and how we can use this knowledge to create manufacturing processes, chemical products and life-saving drugs. Did you know that proteins, yogurt and biodiesel are all biotechnology products? So are insulin and the chickenpox vaccine, both of which have saved or improved the lives of millions. The Biotechnology program covers the fields of biology, chemistry, mathematics, engineering science and engineering design. Students in this program receive two degrees upon graduation: a BSc in Biochemistry and a BASc in Chemical Engineering.

To be admitted into this program, applicants must submit their application to the Faculty of Science.

Career opportunities

- Process engineer
- Biomedical engineer
- Chemical engineer
- Environmental engineer
- Biochemist
- Biotechnology engineer
- Cell biologist
- Patent-law specialist

Examples of courses in Biotechnology

- **BCH 3125** Protein Structure and Function
- **BCH 3170** Molecular Biology
- **BCH 4172** Topics in Biotechnology
- **BIO 3124** General Microbiology
- **CHG 3127** Chemical Reaction Engineering
- **BCH 4101** Human Genome Structure and Function
- **CHG 4381** Biochemical Engineering
- **CHG 4244** Plant Design Project

Undergraduate programs (bachelor’s degrees)

- Honours BSc in Biochemistry
- and BASc in Chemical Engineering (biotechnology)

"Biotechnology provides me with thorough scientific knowledge and understanding and teaches me to apply the knowledge to engineering processes. This opens doors in many fields as students have the abilities to look at problems through two lenses; thus, creating a unique perspective. I aspire to work in the cosmetic industry which is what lead me to choose this program as it perfectly blends two fields which are very significant in cosmetic development."

- Jasmine Silver
- 4th Year, Biotechnology

To be admitted to this program, applicants must submit their application to the Faculty of Science.
MECHANICAL ENGINEERING (MCG)

Mechanical engineers apply the fundamentals of science and math to create practical, useful solutions for a wide range of mechanical, thermal and biomedical systems and devices, from computer parts to power plants, from manufacturing systems to spacecrafts.

This is a broad area of engineering, and graduates find work in almost every industrial sector, including high tech, aerospace, manufacturing, automotive, energy, biomedicine, and consulting.

Career opportunities
- Aeronautical/aerospace engineer
- Automotive engineer
- Manufacturing engineer
- Robotics/automation/controls engineer
- Energy systems engineer
- Biomedical engineer
- Consulting engineer
- Renewable energy engineer

Examples of courses in Mechanical Engineering

MCG 3110 Heat Transfer
MCG 3131 Machine Design
MCG 3306 System Dynamics
MCG 4136 Mechatronics
MCG 4345 Aerodynamics
MCG 4134 Robot Design and Control

Undergraduate programs (bachelor’s degrees)

- BASc in Mechanical Engineering
- BASc in Mechanical Engineering, Engineering Management and Entrepreneurship Option
- BASc in Mechanical Engineering and BSc in Computing Technology

“...When selecting a program, I looked at what made the most sense. As an all-around technological hobbyist, I was drawn to mechatronics and I wanted to learn more about the world of mechanical engineering and computer sciences. All I have to say is that the University of Ottawa surpassed my expectations of mechatronics and I'm proud to have pursued my studies in this field.”

- Mohammad Abu-Shaaban
4th Year, Mechanical Engineering and Computing Technology
BIOMEDICAL MECHANICAL ENGINEERING (MGB)

Our graduates specialize in areas that include the design of artificial hearts, implants, prostheses, and other medical devices; the development and selection of bio-compatible metallic and non-metallic materials for implants and medical equipment; robotics for medical applications; and biomechanics and rehabilitation engineering.

This program’s broad scope gives its graduates a wide range of career options, not only in the biomedical field but also in conventional mechanical engineering. Biomedical systems are among the most complex mechanical systems; therefore, a strong and comprehensive education in standard mechanical engineering principles is provided, with emphasis on their application to biomedical systems.

Career opportunities

- Rehabilitation engineer
- Biomedical engineer
- Mechanical engineer

Examples of courses in Biomedical Mechanical Engineering

MCG 3141  Biomechanics
MCG 3305  Biomedical System Dynamics
MCG 4150  Bioinstrumentation
MCG 4151  Design of Artificial Joint Prostheses and Implants
MCG 4152  Design of Artificial Organs

Undergraduate programs (bachelor’s degrees)

- BASc in Biomedical Mechanical Engineering
- BASc in Biomedical Mechanical Engineering and BSc in Computing Technology

"Studying Biomedical Mechanical Engineering at uOttawa allowed me to develop new skills and explore different fields within the Biomedical and Biotechnology industries. By working in academic and private research institutions and being part of engineering teams, I was able to discover what I truly enjoy and what I want to do in the future."

- David Cortes
  4th Year, Biomedical Mechanical Engineering

Consult the full course sequence at engineering.uOttawa.ca
All courses are offered in English. All first and second year courses, and some third year courses, are also available in French.
Civil engineers design the infrastructure that are essential to their communities, both large and small, such as buildings and their foundations, bridges, canals, dams, transportation facilities, municipal sewer and water networks, as well as wastewater and solid waste treatment systems. Civil engineering students at the University of Ottawa can take advantage of world-class teaching laboratories, multimedia classrooms and computer facilities. Students develop expertise in fundamental theory, field and laboratory testing, computer application, and project management. Upon graduation, they are well-equipped to serve their communities.

**Career opportunities**
- Consulting engineer
- Structural or construction engineer
- Geotechnical engineer
- Environmental engineer
- Water-resources engineer
- Municipal engineer
- Research engineer
- Contractor

**Examples of courses in Civil Engineering**
- **CVG 4113** Hydraulics of Water Supply and Sewer Systems
- **CVG 4145** Reinforced Concrete Design
- **CVG 3147** Structural Steel Design
- **CVG 4150** Highway and Transportation Engineering
- **CVG 4108** Geotechnical Design
- **CVG 4133** Solid Waste Management
- **CVG 4146** Structural Design in Timber

**Undergraduate programs (bachelor’s degrees)**
- BASc in Civil Engineering
- BASc in Civil Engineering, Engineering Management and Entrepreneurship Option
- BASc in Civil Engineering, Environmental and Water Resources Option
- BASc in Civil Engineering, Structural and Geotechnical Option
- BASc in Civil Engineering and BSc in Computing Technology

"I chose to study Civil Engineering as it is a rewarding field that has a significant impact on the way society works, lives, plays and travels. This program focuses on theoretical concepts and is accompanied by practical laboratories to apply taught notions. Having hands-on experience through laboratories and co-op will be very beneficial going into the workplace."

- Alexa Poirier
- 4th Year, Civil Engineering

Consult the full course sequence at engineering.uOttawa.ca.
All courses are offered in English. French courses are available in first and second year.
LEARNING FROM OUR PEERS

Succeed and take advantage of our mentoring centre

The Workshop is an engineering and computer science mentoring centre; a free resource that supports students in their studies and in their transition to university life. The mentors are third- and fourth-year students from the Faculty who offer a variety of services to help students fulfill their potential. We want to see you succeed!

engineering.uOttawa.ca/the-workshop

Meet other students through the Engineering Peer Connection Program

The Engineering Peer Connection Program is an opportunity for you to meet other students and make new friends while collecting volunteer hours recognized by the Michaëlle Jean Centre for Global and Community Engagement. The Faculty of Engineering matches you with other students based on your interests.

engineering.uOttawa.ca/peer-connect
## Ontario Admission Requirements

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Prerequisites and Additional Requirements</th>
<th>Admission Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Mechanical Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Biology 4U; Chemistry 4U; Physics 4U</td>
<td>Mid to High 80s</td>
</tr>
<tr>
<td>Biotechnology (Biochemistry and Chemical Engineering)</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Two of the following: Biology 4U, Chemistry 4U, Physics 4U, Earth and Space Science 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Low 80s</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Computer Science</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U</td>
<td>High 80s</td>
</tr>
<tr>
<td>Computer Science and Mathematics</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Data Science</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U</td>
<td>High 80s</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Mid 80s</td>
</tr>
<tr>
<td>Physics and Electrical Engineering</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; Chemistry 4U; Physics 4U</td>
<td>Low 80s</td>
</tr>
<tr>
<td>Software Engineering (Offered with the CO-OP option only)</td>
<td>English or Français 4U; Advanced Functions 4U; Calculus and Vectors 4U; One of the following: Biology 4U, Chemistry 4U, Computer Science 4U, Physics 4U</td>
<td>Mid to High 80s</td>
</tr>
</tbody>
</table>

These are minimum requirements only. They are subject to change. Admission is not guaranteed.

### General Requirements

Students must have an Ontario Secondary School Diploma with at least six 4U or 4M courses, including the prerequisites listed above. The admission average is calculated based on the six best interim or final Grade 12 courses at the 4U or 4M level, including the prerequisites for the program of choice.

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7 Past experience indicates that students with a strong background in biology, chemistry and physics have an increased rate of success.
### Quebec Admission Requirements

<table>
<thead>
<tr>
<th>Displine</th>
<th>Secondary School Prerequisites and Additional Requirements</th>
<th>Admission Average</th>
<th>CEGEP Prerequisites and Additional Requirements</th>
<th>Admission Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Mechanical Engineering</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Science and Technology (with or without option) (Secondary IV); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Biology (101) General Biology; Chemistry (202) General Chemistry or Organic Chemistry; Physics (203) Mechanics or Electricity and Magnetism; Mathematics (201) Calculus I</td>
<td>Mid 70s</td>
</tr>
<tr>
<td>Biotechnology (Biochemistry and Chemical Engineering)</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Science and Technology (with or without option) (Secondary IV); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Mathematics (201) Calculus I; Two of the following: Biology (101) General Biology, Chemistry (202) General Chemistry or Organic Chemistry, Physics (203) Mechanics or Electricity and Magnetism, Mathematics (201) Algebra I</td>
<td>Mid 70s</td>
</tr>
<tr>
<td>Chemical Engineering Civil Engineering Mechanical Engineering</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Chemistry (202) General Chemistry or Organic Chemistry; Physics (203) Mechanics or Electricity and Magnetism; Mathematics (201) Calculus I</td>
<td>Mid 70s</td>
</tr>
<tr>
<td>Computer Engineering Electrical Engineering</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Chemistry (202) General Chemistry or Organic Chemistry; Physics (203) Mechanics or Electricity and Magnetism; Mathematics (201) Calculus I</td>
<td>Low 70s</td>
</tr>
<tr>
<td>Computer Science Computer Science and Mathematics Data Science</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V)</td>
<td>84%</td>
<td>English (603) or Français (601); Mathematics (201) Calculus I</td>
<td>Mid 70s</td>
</tr>
<tr>
<td>Physics and Electrical Engineering</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Science and Technology (with or without option) (Secondary IV); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Chemistry (202) General Chemistry or Organic Chemistry; Physics (203) Mechanics or Electricity and Magnetism; Mathematics (201) Calculus I</td>
<td>Low 70s</td>
</tr>
<tr>
<td>Software Engineering (Offered with the Co-op option only)</td>
<td>English or Français, Mathematics Technical and Scientific Option¹ or Science Option¹ (Secondary V); Science and Technology (with or without option) (Secondary IV); Chemistry 504; Physics 504</td>
<td>84%</td>
<td>English (603) or Français (601); Mathematics (201) Calculus I; One of the following: Biology (101) General Biology, Chemistry (202) General Chemistry or Organic Chemistry, Physics (203) Mechanics or Electricity and Magnetism</td>
<td>Mid 70s</td>
</tr>
</tbody>
</table>

These are minimum requirements only. They are subject to change. Admission is not guaranteed.

**Secondary V General Requirements**

Students must have a Quebec Secondary School Diploma with five Secondary V courses, including program-specific prerequisites. A minimum average of 84% is required but does not guarantee admission. The admission average is calculated based on a student’s best Secondary V courses, including the prerequisites for the student’s selected program.

**CEGEP general requirements**

Students must have a minimum of 12 CEGEP courses, including program-specific prerequisites, but excluding make-up courses. The admission average is calculated based on completed courses, excluding physical education and make-up courses. We do not take the “R” rating into consideration. Students may receive up to 15 credits of advanced standing. The credits we grant depend on the courses completed, the grades achieved and the program to which the student is admitted.

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1. Students are required to take a make-up course in functions and/or calculus and vectors at the University of Ottawa either the summer before or during their first term.
2. Past experience indicates that students with a strong background in biology, chemistry and physics have an increased rate of success.

To learn more about admission requirements for students coming from provinces or territories other than Ontario and Quebec, please visit [www.uOttawa.ca/undergraduate-admissions](http://www.uOttawa.ca/undergraduate-admissions)
CONTINUING YOUR STUDIES

Once you have completed your undergraduate program, you may want to consider pursuing your education at the graduate level. The Faculty of Engineering provides its graduates with a top-quality education in engineering and computer science and offers a variety of masters and doctoral programs in various fields.

**Undergraduate Research Opportunity Program**

Are you interested in doing research as an undergraduate student? The Undergraduate Research Opportunity Program (UROP) Scholarship offers undergraduate students the chance to work on a research project of their choice with a faculty member and to showcase their findings by participating in the annual UROP poster symposium.

research.uOttawa.ca/centre-research-opportunities

**Masters and/or doctorate degrees**

- Advanced Material Manufacturing
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical and Computer Engineering
- Engineering Design
- Environmental Engineering
- Mechanical Engineering
- Engineering Management
- E-Business Technologies
- Systems Science
- And many more!

For more information, visit: engineering.uOttawa.ca/programs

**Areas of research**

By continuing your studies, you could work with experts on solving global problems or on making world-changing discoveries. Our main areas of research make an impact that can be seen everywhere in our daily lives.

- Enabling technologies for health care and augmented life
- Technology for digital transformation of society
- Sustainable and resilient infrastructure
- Emerging materials and processes: design and development
- Photonics for devices, networks and energy

Students presenting their research at the Graduate Research Poster Competition
HOW TO APPLY

1. Choose the program you want to study in the Faculty of Engineering.

2. Check the academic admission requirements that apply to you.

3. Check application deadlines and complete any required admission tests.

4. Include all documents and forms needed for your application.

5. Track your application for admission via UOZone.

For more information on how to apply, visit uOttawa.ca/undergraduate-admissions

Visit the Faculty of Engineering

We would be pleased to show you around our facilities. Send us an email at genie.engineering@uOttawa.ca or visit virtualtour.uOttawa.ca