We’re redefining engineering education.
At McMaster Engineering, we offer you more than a best-in-class degree. We offer experiences that help create global-ready, socially-aware citizens through project-based classes, flexible co-op work terms, research opportunities and dozens of clubs and teams.

You are the sum total of your experiences.
At McMaster, you define your experience. We’ll help you get there.
We put students at the centre of their education. Whatever you want to do in today’s changing, dynamic world, the experiences you gain at McMaster will take you where you want to go.
Building on our rich history, we’re an innovative education and research community committed to discovery and improving the world around us. We believe that human and societal health and well-being depends on creative and diverse thoughts and ideas.

In 2019, McMaster placed second in the world (#1 in Canada) for Global Impact, a new ranking from Times Higher Education, that recognizes the impact universities are making in their own countries and on a global scale.

Based on the Sustainable Development Goals (SDGs) adopted by the United Nations, McMaster was recognized with the award for its deep commitment to good health and well-being, work and economic growth, building sustainable cities and communities, achieving gender equity and revitalizing global partnerships.

Our impact defies borders.

“Irregular Engineering is ranked among the top programs in the world. We foster a love of learning and sense of personal dedication to excellence within a broader societal context of engineering. Our students are motivated and inspired to become engaged citizen scholars who will transform the world.”

Ishwar K. Puri
Dean, Faculty of Engineering

Ranked among the Top 75 universities in the world
Times Higher Education 2020

Winner of the 2018 Global Teaching Excellence Award

#1 most research intensive university in Canada
We’re known as the Hammer. Steel Town. The Ambitious City. We’ve also been called the Brooklyn of Canada: the new housing hotspot for Toronto transplants. We’re eclectic and proud of it. We’re also proud of having more waterfalls than anywhere else in the world (more than 100!), a thriving arts scene, beloved Canadian Football League team, tons of hiking trails, a vibrant music and nightlife culture and enough delicious restaurants to impress any foodie.

And it’s all at your doorstep. Get to know your new home.

Here are 30 awesome things to do within 30 minutes of campus

1. Embrace the panoramic view at Dundas Peak (13 min drive)
2. Check out the galleries on James St. N (22 min walk, 20 min bus ride)
3. Hike the Bruce Trail (16 min bike, 3 min drive)
4. Explore Tim’s and Webster’s waterfalls in Dundas (10 min drive)
5. Go for a boat ride at the West Harbour (13 min drive)
6. Cheek on the CY’s TCart & kick back with the Forge FC at the Tim Hortons Field (15 min drive)
7. Get cultured at the Art Gallery of Hamilton (21 min bike, 12 min bus, 3 min drive)
8. Unplug your inner foodie on King William St. (12 min drive, 34 min bus)
9. Shop for unique gifts on Locke Street (18 min bus, 7 min drive)
10. Take a selfie in front of the Hamilton sign (7 min drive, 19 min bus)
11. Chat with a friend by the Gore Park fountain (20 min bus, 9 min drive)
12. Watch an old flick at the Westdale Theatre (11 min walk)
13. Stop and smell the roses at the Royal Botanical Gardens (13 min drive)
14. Go canoeing through Cootes Paradise (9 min drive)
15. Visit local vendors at the Hamilton Farmer’s Market (21 min bus, 9 min drive)
16. Dine on Hess Street (22 min bus, 7 min drive)
17. So to the mega arts and music event: SuperCrawl (10 min drive, 21 min bus)
18. Watch an Ontario Hockey League Buildings game at the First Ontario Centre (20 min bike, 9 min drive)
19. Devour Donut Monster delights (7 min drive, 27 min bus)
20. Dance on Hess Street (22 min bus, 7 min drive)
21. Lace up your ice skates at Pier 8 (16 min drive)
22. Get lost in an escape room (18 min drive, 22 min bus)
23. Get lost on an escape room (10 min drive, 18 min bus)
24. Class it up with the Hamilton Philharmonic Orchestra (7 min drive, 10 min bus)
25. Defy gravity at the climbing gym (9 min drive, 15 min bus)
26. Class it up with the Hamilton Philharmonic Orchestra (7 min drive, 10 min bus)
27. Act on your love of theatre during the Fringe Festival (3 min drive, 21 min bus)
28. Act on your love of theatre during the Fringe Festival (3 min drive, 21 min bus)
29. Run the Around the Bay race (12 min drive)
30. Test your game skills at Gamepolis (13 min drive, 20 min bus)

Toronto (45 min drive)
Niagara Falls (45 min drive)
Hamilton Downtown
McMaster University

HAMILTON (YHM) is the new ‘it’ spot

DEGREE + YHM
Expand your net worth and your network.

Every student has access to the co-op program. The best part? You decide when you would like to complete co-op and we’ll help you get there.

Your co-op, your way!

How it works:

Your professional career starts in your first year with an introductory non-credit co-op course. Throughout the year, a team of 15 staff from the Engineering Co-op and Career Services office connect with more than 1,000 employers, bringing them directly to you through over 200 workshops and events annually. We also work with you to help navigate the career exploration, job search, application, interview and offer process.

Beginning as early as the summer after your first year, you can begin completing four-month co-op positions. After your third year, you’ll have the option to complete longer, more immersive eight-, 12- or 16-month positions.

When can I go on co-op?

<table>
<thead>
<tr>
<th>WORK TERM LENGTHS</th>
<th>YEAR 1 &amp; 2</th>
<th>YEAR 3 &amp; UP</th>
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<tr>
<td>4</td>
<td>8</td>
<td>12</td>
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<td>16</td>
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</tbody>
</table>

12 months of co-op is needed to graduate with the designation on your degree, but you can gain up to 28 months of work experience before graduating.

Oluwatosi Odubanjo
Biotechnology, Year 3
Ogun, Nigeria
Co-op at the start-up Vanwyn Incorporated

“My co-op gave me a chance to take a good look at what life is like after graduation and realize to bring something to life, you need to use your creativity. My creativity at my co-op was greatly put into play.”

Sample Co-op & Career Services Available:
- Resume critiques
- LinkedIn workshops
- Professional development sessions
- One-on-one career advising

Co-op Quick Facts

- $50k average annual salary
- $23/hr average hourly rate
- 98% of employers would hire another MacEng student
- 10,000 co-op students have worked in 30 countries around the world
- McMaster University ranks in the Global Top 100 (#5 in Canada) for Graduate Employability (QS Graduate Employability Rankings 2018)

GO GLOBAL

2,000+ students are on co-op each year around the world!

4,000+ positions are posted each year, which means the opportunities are endless

2,000+ students are on co-op each year around the world!
There's more than one way to gain work experience at MacEng.

Our flexible co-op structure means you can complete work terms when and where it makes sense for you.

Check out our 2019 co-op students of the year for two examples of how you might complete up to 28 months of co-op during your degree:

Noelle Wilton: Chemical and Bioengineering

- Research@McMaster 4 months Hamilton, ON
- BioMarin Pharmaceuticals 12 months, California, USA
- Graduating June 2020 Biotech or Management Consulting

Abraham Omorogbe: Software Engineering and Management

- BlackBerry 4 months Waterloo, ON
- Hydro One 4 months Toronto, ON
- Microsoft 4 months Washington, USA
- IBM Canada 4 months Toronto, ON
- Microsoft 4 months Washington, USA
- Graduated June 2019 Starting @ Microsoft

The only university in the world to offer an Employer of the Week series.

One week can make a big difference. The Employer of the Week series brings a new employer to campus each week for 5 days of interactive events.

Co-op (Microsoft) + DECA U Executive + UX/UI Design = Maanav

"On co-op at Microsoft, after my first year, I got to work on a project that I felt was very visible and very applicable to the real world. So not only did I gain a lot of real-world experiences as a software engineer, but I was also able to really figure out what I want to do in the future. I also got to make a lot of amazing friends and on top of that, getting to spend my summer in Seattle meant I could visit one of the most beautiful cities in the world and just really take it all in."

Maanav Dalal Software Engineering, Year 2 Brampton

Work it
All work + all play = opportunity.
Ridiculously active.
Perpetually involved.
Our students take extracurricular activity to the next level.

If you take a stroll through the Gerald Hatch Centre for Engineering Experiential Learning (known as ‘Hatch’ to our students), it’s hard not to feel the energy. This is home base for the McMaster Engineering Society and affiliated clubs and teams. MacEng students brainstorm ideas and bring them to life in 28,000 sq ft of collaboration rooms, lounges and garage space devoted to undergraduate student life.

There are more than 50 Faculty of Engineering affiliated clubs and teams, with more than 1,400 members.

McMaster Engineering offers course credit for students participating in both technical and non-technical clubs and teams.

We typically dominate the podium at the national Troitsky Bridge Building Competition, taking at least 2 of the top 3 prizes for the past two years.

MERGE (McMaster Experimental Reduced Gravity Team) took home the Overall Excellence First Place Prize at the 2019 Canadian Reduced Gravity Experiment (CAN-RGX) Design Challenge.

Automotive students from McMaster won a 1st place award at the prestigious Partners for the Advancement of Collaborative Engineering Education Annual Global Forum.

Our students have been putting on an annual musical created and performed entirely by Faculty of Engineering students for the past 22 years.

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These are more than passion projects.
“It’s important to take all the opportunities that Mac offers because they’re there for you to help build your confidence, grow as a person, and make connections. On exchange in Leeds, UK, I made a network of international contacts that will help me in my future career.”

Arisha Osmani
Civil Engineering, Year 4
Mississauga/Karachi, Pakistan

The world needs engineers with heart. Ones who consider the all-important question: am I making the world a better place?

We put our social impact mantra to work, not only in the classroom, but also through our research, collaborative initiatives, and on-campus student activities.

Think Globally. We are the first and only institution in Canada to participate in the US National Academy of Engineering (NAE) Grand Challenges Scholars Program, where students address the biggest challenges facing our planet, from creating more renewable energy to building resilient infrastructure. Through the McMaster Grand Challenges Program, you can gain experience, develop global awareness and earn credentials by completing a series of courses and participating in action-oriented programming.

Act Locally. MacChangers is a co-curricular program where students from different programs tackle subjects related to sustainability within the City of Hamilton. By working with community partners, students build prototypes and pitch ideas to create environmentally-friendly solutions. You’ll graduate with a digital credential and have the opportunity to gain course credit as part of the program.

McMaster’s Engineers Without Borders is passionately pursuing positive social change through engineering programs around the world and within Canada, including in First Nations communities.
We provide more opportunities to participate in research as an undergraduate engineering student than any university in Canada.

As part of Canada’s #1 Research Intensive University, McMaster faculty members are at the forefront of groundbreaking innovation. Our undergraduate students are right there alongside them as part of the team making new discoveries.

“Aside from the more technically-focused attributes such as proper lab etiquette and procedures for keeping samples sterile, I was also able to better equip myself with ‘soft skills’: holding successful meetings, creating impactful presentations, and the ability to speak up about my ideas in large groups of qualified individuals.”

Lacey Wise
Mechanical Engineering & Society, Year 5
(double minor in Microbiology and Immunology)
Ancaster

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Ancaster

LOOKING TO GET A HEAD START ON GRAD SCHOOL?
We offer advanced credit for MEng programs and accelerated options for MASc/MSc programs.

George Padeigis
Electrical & Biomedical Engineering, Year 4
Mississauga
Systems Engineer Intern, Tesla
Biomedical Engineer Researcher, Hamilton Health Sciences
Undergraduate Researcher, McMaster University
Architectural Design Intern, Hatch

“As an NSERC (Natural Sciences and Engineering Research Council of Canada) undergraduate researcher in Professor Carlos Filipe’s Chemical and Bioengineering laboratory, I have had the privilege of developing biomedical devices to help the most underserved people. Working on projects from low cost biosensors to ensure drinking water is safe, to point of care diagnostic tools accessible to those who need them most, I was faced with diverse challenges and opportunities.”

Research begins as early as first year, with more than 100 Engineering Research Experience Awards issued with major entrance scholarships.
Mac Design League (Co-founder) + Entrepreneur + Sports = Shreyas

Start something new

“I started a club at McMaster called Mac Design League in my second year; inspired by the success of this club we started a company called National Design League. The idea was to take these Designations from McMaster to universities that are in Ontario, and hopefully the world.”

Shreyas Gangwani
Mechanical Engineering & Management, Year 5

Big Ideas are born at McMaster Engineering.

There’s a reason why so many of our students are also musicians, dancers, writers, poets and artists; engineering is a profession that is made for creative problem-solvers who use both sides of their brain to develop innovative solutions.

At McMaster, students learn to identify and frame problems, design and prototype solutions and pitch their big ideas to clients and investors.

6 ways to innovate in your degree:

1. Engineering and iBioMed students kick-start their degree with an integrated first-year design course.
2. Engineering students can choose the "& Management" option, offering the core of a commerce curriculum as an addition to their studies; or the "& Society" option, which gives students room to incorporate courses related to sustainability into their degree.
3. 25 per cent of the ETech curriculum is made up of management courses.
4. The Minor in Innovation adds entrepreneurial skills development to any degree.
5. Complete a minor in theatre, dance, or music - or participate in the annual McMaster Engineering Musical!
6. iBioMed students have courses in entrepreneurship embedded in their curriculum.

THE FORGE

Get a head-start on your start-up at The Forge incubator, based at McMaster.

Last year, 92 per cent of finalists at the Forge Student Start-up Competition were MacEng students.

What started as a final year engineering class project at McMaster University is now an internationally recognized improved solution for the early detection of melanoma, the most dangerous form of skin cancer. These four Electrical & Biomedical Engineering grads won the prestigious James Dyson Award and $50K to support the development of sKan.

We are the 1st Canadian university to offer digital degrees to graduates through blockchain technology.

Bring your ideas to life in the Thode Library Makerspace.

Shreyas Gangwani
Mechanical Engineering & Management, Year 5

Vaughan

"I started a club at McMaster called Mac Design League in my second year; inspired by the success of this club we started a company called National Design League. The idea was to take these Designations from McMaster to universities that are in Ontario, and hopefully the world."

Shreyas Gangwani
Mechanical Engineering & Management, Year 5

Vaughan
Staying balanced. Keeping things in perspective.

At MacEng, you’re always among friends - more than 6,000 of them! Our #FireballFamily is a supportive community where students build each other up in a spirit of collaboration, not competition.

You’ll be welcomed to the MacEng community during Welcome Week - an energy-packed orientation where friendships are forged. Whether you’re living in residence in the Innovation and Society Living Learning Community or commuting from the GTA, you’ll quickly discover the #FireballFamily spirit.

No course assignment is more important than your mental and physical health. The Paws N’ Play dog therapy program brings furry friends right to you for a study break. McMaster’s Student Wellness Centre runs free yoga and mindfulness classes, nature walks, gardening therapy groups and device-free lunch sessions.

4 reasons why you belong at MacEng:

1. Need to take a summer course? Interested in personal travel to a far-off destination? Our flexible co-op structure means that you can complete work terms when and where it works best.

2. Hamilton has a small town vibe with the amenities of a big city. Nature lovers will find refuge in our many conservation areas, while foodies will find no shortage of tasty treats.

3. A free gym membership on campus gives you access to the best indoor and outdoor physical activities.

4. Academic Advisors are your go-to people for issues of any kind.

96.5% of students achieve first year success

Go offline

“I love spending time outdoors and going on hikes, because it’s really nice to disconnect from technology for a bit. I’ve loved exploring all of the trails and waterfalls that we have here in Hamilton. That is something that I didn’t get in my hometown.”

Bri Conn
Engineering Physics & Society (minor in Sustainability), Year 4

Varsity Lacrosse
Sustainability
Mac Interdisciplinary Satellite Team
Bri

EngiQueers is a LGBTQ+ student advocacy group that was started at McMaster and is now in 32 schools across 9 provinces.

Our Women in Engineering Society isn’t just for women. We welcome anyone with an interest in advancing equity and inclusion in the engineering profession.
### Your Degree Options

#### Engineering
- **Admission is by selection**
- **Grade 12 U/M:** English, Calculus & Vectors, Chemistry, Physics
- **Supplementary application is required**

#### Integrated Biomedical Engineering & Health Sciences
- **Admission is by selection**
- **Grade 12 U/M:** English, Calculus & Vectors, Chemistry, Physics, Biology
- **Supplementary application is required**

#### Computer Science
- **92%-95%**
- **Grade 12 U/M:** English, Calculus & Vectors
- **2 of:** Computer Science, Biology, Physics, Chemistry, Computer Engineering, Technology

#### Bachelor of Technology
- **78%-82%**
- **Grade 12 U/M:** English, Calculus & Vectors, Chemistry, Physics

### Admission Requirements

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<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Year Four</th>
<th>Year Five</th>
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<tbody>
<tr>
<td>Engineering 1</td>
<td>Chemical Engineering &amp; Bioengineering</td>
<td>Chemical Engineering</td>
<td>Materials Engineering &amp; Society &amp; Management</td>
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<td>Computer Engineering</td>
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<td>INT 1</td>
<td>BENG Biomedical Engineering (BME) (All Disciplines Above Except 5 Year Options &amp; Computer Engineering)</td>
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<td></td>
<td>BHSC Health, Engineering Science and Entrepreneurship (HSE)</td>
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### Year One
- **English**
- **Calculus & Vectors**
- **Chemistry**
- **Physics**

### Year Two
- **Chemical Engineering**
- **Civil Engineering**
- **Electrical Engineering**
- **Computer Science Honours Basc**

### Year Three
- **Materials Engineering & Society & Management**
- **Mechanical Engineering**
- **Mechatronics Engineering**
- **Software Engineering**

### Year Four
- **Automation Engineering Technology**
- **Automotive and Vehicle Engineering Technology**
- **Biotechnology**

### Year Five
- **Engineering Physics**
- **Supplementary Application is Required**

Degree lengths may vary depending on when and how students choose to complete co-op. Please see page 9 for details.

Additional admissions information found on page 43.
It’s about more than being brilliant. McMaster Engineers are empowered to be difference makers.

We will teach you to be the engineer who sees only solutions, not problems. The one who can adapt easily to any situation, reinvent themselves throughout their career, and truly thrive in today’s dynamic technology-based economy.

Your first year:
It starts right from day one. We’re ranked #1 in Canada for student satisfaction with a community-based project in 1st year (National Survey of Student Engagement 2017). We are taking this a step further by revamping our popular client-focused design course and integrating it throughout one-third of your entire first year curriculum.

With a focus on experiential, collaborative and project-based learning, students take real problems in society and learn the technical and teamwork skills to solve them. In first year, you’ll gain a broad exposure to engineering before choosing a specialization for second year and beyond.

What you’ll take:
General Chemistry for Engineering I
Engineering Mathematics (three courses)
Introductory Mechanics
Waves, Electricity, and Magnetic Fields
*NEW* Engineering Solutions Design Projects
Electives: choose two courses (six units) of approved complementary studies electives

Kickstart your career with co-op:
■ All students can complete the co-op option as part of their degree
■ Work anywhere in the world, including in the USA at companies such as Tesla or Microsoft
■ Select from four-, eight-, 12- or 16-month co-op term lengths

25% of students complete some co-op as part of their degree
76% of co-op work terms were longer than 4 months in 2018/2019

Projects transition from well-structured to open-ended as the course progresses, with technical skills and subject expertise steadily building in engineering design and graphics, programming, professional engineering practice, and structure and properties of materials.

With a team of Faculty mentors, instructional assistants, lab technicians and teaching assistants on hand to lend support, students will develop projects to be featured in a personal online portfolio that can be incorporated into co-op job applications.

Projects could include:
Developing applications of biomedical sensing in robotics
Developing sustainable communities through autonomous recycling
"I went to Honduras with Global Engineering Brigades to design a water system for a community. This club has directly led to my choice of engineering discipline and was an incredible chance to make a difference in the world."

Jenna Bullard
Chemical Engineering & Society, Year 3
Richmond Hill

Beyond first year:
With a year of broad-based engineering study under your belt, you’ll be well positioned to select an area of specialization for your degree.

Chemical Engineering
Chemical Engineering and Bioengineering*
Civil Engineering
Computer Engineering
Electrical Engineering
Engineering Physics

*five-year program options

Free Choice: Students with a minimum admission average of mid-90s may qualify for guaranteed choice of discipline in second year and beyond, dependent on successful completion of first-year Engineering. This does not apply to Chemical Engineering & Bioengineering or Management and Society five-year program options.

EXPLORE LEVEL 2 PROGRAM OPTIONS

Chemical Engineering (and Chemical Engineering & Bioengineering)
Chemical Engineering involves developing efficient, cost-effective and socially responsible processes that convert chemical components and energy. By developing products that are the building blocks of almost everything around us, chemical engineers have a major role in modern society. Chemical engineers manufacture consumer and commercial products, are involved in energy production and transportation, mass produce pharmaceuticals and biopharmaceuticals, and develop sustainable solutions to current and future environmental problems.

WHERE WILL YOU GO?
- Pharmaceuticals
- Biomedical advancement
- Enhanced food production
- Energy generation
- Materials improvement
- Environmental sustainability

TOP CO-OP EMPLOYERS:
- Ontario Power Generation
- Septodont
- Lakeside Process Controls

DID YOU KNOW?
- You can complete a degree in Chemical Engineering and Bioengineering, which allows you to combine Chemical Engineering with aspects of biology, human anatomy and microbiology. Contribute to growing “bio” fields of bio-materials, -sensors, -technology, -medical and -engineering
- The department hires between 60 and 70 undergraduate students each summer to work as research assistants on a variety of exciting research projects
Civil Engineering

Civil Engineering requires a sense of curiosity and the ability to not just look at the world around you, but to develop ways to improve it. Civil engineers do exactly that — planning for and safely designing, constructing, maintaining and rehabilitating communities. By using the latest technology to design and construct facilities that are critical to our society, including buildings, bridges, roads, water and wastewater systems, civil engineers collaborate to build a better, more sustainable future.

WHERE WILL YOU GO?
- Constructing innovative and resilient infrastructure
- Sustainability and intelligent energy systems
- Transportation and smarter mobility
- Water security under climate change
- Environmental resource management

TOP CO-OP EMPLOYERS:
- Dufferin Construction
- Ministry of Transportation
- Walters Inc.

DID YOU KNOW?
- Ranking 3rd in Canada and 29th in the World, Civil Engineering at McMaster is a global hub for earthquake engineering
- McMaster Engineers typically dominate the podium at the national Tritonky Bridge Building Competition, where students are challenged to build bridges out of popsicle sticks that can support thousands of kilograms of weight

Electrical Engineering

Electrical Engineering involves the design of devices and systems that employ the flow of electrons to make the world more connected. Our program encompasses electrical power generation and distribution, electrified and autonomous vehicles, robots and drones, electronics, wired and wireless communications, optoelectronics, signal processing, computers, radar and lidar, medical devices and imaging, and many other technologies that are changing our world for the better.

WHERE WILL YOU GO?
- Power and renewable energy
- Electrified transportation
- Biomedical electronics
- Telecommunications
- Robotics and automation

TOP CO-OP EMPLOYERS:
- Advanced Micro Devices Inc.
- General Motors
- Hydro One

DID YOU KNOW?
- Students in this program can embark on an exchange with KTH Royal Institute of Technology in Stockholm, Sweden

Computer Engineering

Computer Engineering makes our world more connected, more intelligent, and even healthier by applying advances in electronics and software to develop devices and systems. Our program encompasses computer hardware, programming, electronics, multimedia, augmented and virtual reality, signal processing, robotics, cyberspace, hardware and software for machine learning and more.

WHERE WILL YOU GO?
- Computer systems and networking
- Hardware design
- Autonomous vehicles and machine learning
- Multimedia, telecommunications and Internet-of-things
- Data analytics

TOP CO-OP EMPLOYERS:
- Advanced Micro Devices Inc.
- CBC
- Everet Microsystems Ltd.

DID YOU KNOW?
- Computer Engineering students tackle challenges such as implementing virtual reality, improving health outcomes through data analytics, securing cyberspace, reverse-engineering the brain, and more
- New course offerings, including classes on machine learning, are being developed to adapt to fast-changing technologies

Computer Engineering students and professors have partnered with the City of Hamilton to contribute to real-life transportation projects related to Light Rail Transit and Bus Transit.

Engineering Physics

Push the envelope of new technologies to solve challenges both recognized and undetected. Engineering Physics is an interdisciplinary field of study where new and advanced materials, devices and systems are engineered based on our fundamental understanding of physics.

WHERE WILL YOU GO?
- Nano- and micro-device engineering
- Nuclear engineering
- Biomedical engineering
- Energy systems and renewable energy
- Lasers, photonics and optics

TOP CO-OP EMPLOYERS:
- Ontario Power Generation
- L3HARRIS
- Curtiss-Wright Indal Technologies

DID YOU KNOW?
- Donna Strickland, who graduated from McMaster Engineering Physics in ’81, received a Nobel Prize for her work in pulsed lasers
- A new student space called the “Quantum Tunnel” recently opened up to foster the Engineering Physics community

A video preprocessor designed by the Electrical and Computer Engineering Department is used by several TV networks, including CNN.

Civil Engineering students and professors have partnered with the City of Hamilton to contribute to real-life transportation projects related to Light Rail Transit and Bus Transit.

An Electrical & Biomedical Engineering grad harnessed her passion for programming to found Helping Hands, a platform to help youth volunteer and get civically engaged while building skills for their future careers.

Civil Engineering students and professors have partnered with the City of Hamilton to contribute to real-life transportation projects related to Light Rail Transit and Bus Transit.

A new student space called the “Quantum Tunnel” recently opened up to foster the Engineering Physics community.

A video preprocessor designed by the Electrical and Computer Engineering Department is used by several TV networks, including CNN.

Engineering Physics students collaborated to develop Eclipse, which improves driving safety and comfort by blocking glare from bright lights on windshields. It can protect the driver’s view from multiple light sources simultaneously and keep track of them as they move across the driver’s view.

DID YOU KNOW?
- Donna Strickland, who graduated from McMaster Engineering Physics in ’81, received a Nobel Prize for her work in pulsed lasers
- A new student space called the “Quantum Tunnel” recently opened up to foster the Engineering Physics community
“As a musician you get to create. To play out what’s in your imagination. It’s the same in engineering – your imagination is your power. I’ve had the chance to jump right into engineering with co-ops starting right after first year.”

Tomisin Olomi
Materials Engineering, Year 4
Lagos, Nigeria

Materials Engineering
Materials Engineering uses innovation, design and problem solving to develop novel materials. This field of study also characterizes the mechanical, physical and chemical properties of materials to create reliable, sustainable and efficient alternatives. This program focuses on biomaterials, data analytics, computational materials, materials for manufacturing and infrastructure, and smart materials and devices.

WHERE WILL YOU GO?
- Automotive and aerospace
- Energy production
- Manufacturing and infrastructure
- Biomaterials and biocompatible products
- Data analytics and computational materials
- Smart materials and microelectronic devices

TOP CO-OP EMPLOYERS:
- ArcelorMittal Dofasco
- General Motors
- Bombardier

DID YOU KNOW?
- The department has an exchange agreement with the Grenoble Institute of Technology in France
- McMaster is the hub of materials research in Canada, including the Canadian Centre for Electron Microscopy, Centre for Automotive Materials and Corrosion, CanmetMATERIALS and the Steel Research Centre

Materials Engineering students have developed a number of innovative projects, including new insulating materials for use in aircraft black boxes and dissolving metal baskets for transporting trees. The department also developed the world’s first Aspirin gel tablets.

Mechanical Engineering
Mechanical engineers collaborate in interdisciplinary teams using the principles of physics and mathematics to conceive, research, design, manufacture, test, control and maintain a wide variety of mechanical systems. These systems include cars, airplanes, power plants, biomechanical implants, human assistive devices and renewable “green” energy systems.

WHERE WILL YOU GO?
- Biomechanics
- Renewable energy
- Advanced manufacturing in automotive and aerospace industries
- Mechanics and design
- Thermal fluid science

TOP CO-OP EMPLOYERS:
- Stackpole International
- Loblaw
- Ontario Power Generation

DID YOU KNOW?
- Mechanical Engineering students are very involved in a variety of technical teams, including EcoCAR, Formula Electric, Baja Racing, Solar Car Project and Custom Vehicle that operate out of their private build spaces in the new Gerald Hatch Centre for Engineering Experiential Learning

A Mechanical Engineering professor from McMaster used Canada’s climate as inspiration to build a 3D printed, self-powered sensing system that can extract energy from the environment, including snow, and convert it into electrical power.

McMaster Gospel Choir
+ Co-op (Stelco)
+ Bass Guitar
= Tomisin

All about the bass

“As a musician you get to create. To play out what’s in your imagination. It’s the same in engineering – your imagination is your power. I’ve had the chance to jump right into engineering with co-ops starting right after first year.”

Tomisin Olomi
Materials Engineering, Year 4
Lagos, Nigeria
Five-Year Program Options

These programs are available to all engineering disciplines, with the exception of Chemical Engineering & Bioengineering or Integrated Biomedical Engineering & Health Sciences (iBioMed).

Engineering & Management

The Engineering & Management Program is a prestigious five-year program designed to provide engineering students with a deeper understanding of the business, project management, and leadership skills needed to thrive in a corporate or entrepreneurial environment.

- Students learn to develop creative solutions for complex industry problems within interdisciplinary team environments
- Program of distinction established over 40 years ago
- Exclusive access to programs where students can leverage skills acquired in a classroom to solve situations in cases that replicate industry expectations and timelines
- Fast track to your MBA

Engineering & Society

The Engineering & Society Program is the only program of its kind in North America to combine a traditional engineering education with a broader university experience. This five-year program is designed to develop creative, inquisitive, well-rounded and thoughtful engineers.

- Core courses examine the complex interactions between technology, society and the environment
- Focused electives let students pursue a field of study that complements their degree, allowing students to complete a minor in a variety of subjects, including sustainability and innovation
- This program develops engineers with strong communication, critical thinking and teamwork skills that prepare them to solve open-ended problems they will encounter when working in industry

Chemical Engineering & Bioengineering

The Chemical Engineering & Bioengineering program is a unique five-year program that combines the core Chemical Engineering undergraduate curriculum with courses from the Biological Sciences and Bioengineering. Students in this program will make significant contributions in the fields of biotechnology and bioengineering.
INTEGRATED BIOMEDICAL ENGINEERING & HEALTH SCIENCES

We’ve fused the best of our top-ranked health sciences and engineering programs to deliver a unique project-based learning experience that is second to none.

In the iBioMed program, you’ll be working to solve real-life projects right from day one. In dedicated design studio locations, you’ll learn to work in teams to define problems, pitch ideas, build prototypes and test products with real clients.

YOUR FIRST YEAR:
- Health Solutions Design Projects I
- General Chemistry
- Cellular and Molecular Biology
- Engineering Mathematics (two courses)

SECOND-YEAR PROGRAM SPECIALIZATION:
- Bachelor of Biomedical Engineering (BEngBME) with an emphasis on biomedical engineering within a parent discipline (Chemical, Civil, Electrical, Engineering Physics, Materials, Mechanical, Mechatronics or Software) - 90 spaces
- Honours Bachelor of Health Sciences BHSc (Honours) with an emphasis on Health, Engineering Science and Entrepreneurship - 50 spaces

DESIGN PROJECTS AND SHOWCASES:
- iBioMed students take a variety of project and design courses throughout their degree. As students progress from each level, topics covered within these courses continue to evolve and build upon each other. At the end of each term, students come together to display their projects in iBioMed Showcases.

In past projects, students have collaborated to:
- Design a longer lasting hip replacement
- Construct a less expensive MRI machine
- Create a more durable prosthetic arm

Did you know?
- 90% of students choose co-op
- 60% of students are female

CO-OP OPPORTUNITIES:
iBioMed students start innovating right from year one, making them ideal co-op students and strong future business leaders. You’ll learn to lead teams, drive projects forward and tackle challenges with confidence. Complete co-op in four-, eight-, 12- or 16-month term lengths.

GRADUATES CAN GO ON TO:
- Pursue careers in biomedical engineering, biotechnology, health and biomedical science
- Start their own companies or innovate within existing organizations
- Explore further studies in graduate research, professional health science careers or medicine

Examples of co-op job titles:
- Undergraduate researcher at McMaster
- Software engineering intern at Slack
- Research student at London Health Sciences Centre
- Data scientist at the Royal Bank of Canada

“Being a part of design-a-thons and hack-a-thons has definitely allowed me to expand my network and meet new people. I’ve made friends with many senior students and learned about their experiences in their individual streams and how to make the best of my degree.”

Varun Jain
Health, Engineering Science and Entrepreneurship (iBioMed), Year 2
Mississauga

KEY FEATURES:
- The only five-year, integrated program of its kind in Canada
- Assessments aligned with content and skills
- Student-directed projects featured in a personalized online portfolio
- Flexible, optional co-op program
- Cross-disciplinary collaborations amongst classmates
- Limited enrolment of 140 students per year

ANATOMY LAB:
In Level II, iBioMed students begin to take more courses on human physiology and anatomy. You’ll have the opportunity to work and learn in McMaster’s anatomy lab, which houses a large number of pro-dissected specimens complemented by models, medical images and demonstrations to teach anatomical concepts from a variety of learning angles.

Get with the program

Brighter World
www.eng.mcmaster.ca/future
Intimate classes, award-winning professors and incredible co-op opportunities. Discover the Bachelor of Technology (BTech) advantage.

The BTech program positions you to be at the forefront of change in engineering industries. With a unique blend of theory and practice, students spend more than 750 hours in lab settings applying engineering principles to develop innovative technical solutions. Guided by industry advisory committees and taught by professors with relevant experience, each of the three BTech streams is geared to tackle technological change head-on.

With 25 per cent of the curriculum devoted to management courses, graduates lead by example on a technical level, while also leading strategy and building business in corporate boardrooms. Average class sizes of 40-60 students means more interaction with your professors and a close-knit student community.

You’ll earn:
- Degree
- Advanced Diploma
- Business Management Certificate
- minimum of 12 months of co-op work experience

Your first year:

<table>
<thead>
<tr>
<th>Program Stream</th>
<th>Automation Engineering Technology</th>
<th>Automotive and Vehicle Engineering Technology</th>
<th>Biotechnology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Courses</td>
<td>Chemistry</td>
<td>Mathematics II</td>
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<tr>
<td></td>
<td>C++ Programming</td>
<td>Physics</td>
<td></td>
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<tr>
<td></td>
<td>Electricity and Electronics I</td>
<td>Communication Skills I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics I</td>
<td>Communication Skills II</td>
<td></td>
</tr>
<tr>
<td>Specialized Courses</td>
<td>Analytical Chemistry</td>
<td>Mechanics</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td></td>
<td>Object-Oriented Programming</td>
<td>Object-Oriented Programming</td>
<td>Biology</td>
</tr>
</tbody>
</table>

Did you know?

CIM Accreditation: Our program is accredited by the Canadian Institute of Management (CIM), which recognizes BTech as a leader in business and management education

Students are taught in a world-class “Learning Factory,” a futuristic lab that simulates the factory of tomorrow

Kickstart your career with co-op:
- 12-months of required co-op allows students to hit the ground running in their career after graduation
- Students can complete co-op anywhere in the world
- Opportunities to work and research at our cutting-edge facilities on campus
- Top employers include: BMW, Tesla, Amazon, CBC, Pepsi Co., General Motors, Estée Lauder and IBM

BTECH GRADUATES CAN GO ON TO:
- Work in diverse engineering fields
- Complete graduate school (MEng, MBA, MASc, PhD)
- BTech graduates are able to achieve a more direct path to a Professional Engineer (PEng) licence by completing a set number of technical exams after graduation

FIRST YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>School</td>
<td>Possible co-op work term</td>
<td></td>
</tr>
</tbody>
</table>

36  McMaster Engineering | Brighter World  www.eng.mcmaster.ca/future
Automation Engineering Technology

The Automation Engineering Technology program prepares students to build complex electronic systems that create solutions to everyday problems. By teaching skills from the fields of chemical, mechanical, electrical and computer engineering, graduates can easily transition between industries. From robotics to food processing — whenever you might find an automatic system that uses sensors, instruments, actuators, and networks — you will find a role suitable for a skilled automation specialist.

WHERE WILL YOU GO?
- Use hardware and software to improve the efficiency of plants and labs
- Design control systems and assembly lines
- Develop and program robotics

TOP CO-OP EMPLOYERS:
- RBC
- Linamar Corporation
- PepsiCo

DID YOU KNOW?
- The Automation Engineering Technology program has developed a Smart Systems stream option for students. New courses in the field of Smart Engineering Technology have been introduced, including cloud computing, Internet-of-things, artificial intelligence, machine learning, embedded systems, smart health systems and smart cities.

Automotive and Vehicle Engineering Technology:

The Automotive and Vehicle Engineering Technology program teaches students to make vehicles safer, faster, cleaner and more sustainable. Students are taught with a systems perspective blending various engineering disciplines such as: mechanical, electrical, computer science, mechatronics and materials. Students develop hands-on skills on 3D CAD modeling, robot programming, controller tuning, electric/hybrid vehicle design, vibration control, troubleshooting and manufacturing.

WHERE WILL YOU GO?
- Develop hybrid and green vehicle technologies
- Design power and control systems, engines and bodies
- Perform complex analysis on mechanical components, assemblies and systems

TOP CO-OP EMPLOYERS:
- General Motors
- Magna International
- Honda of Canada Manufacturing

DID YOU KNOW?
- Automotive and Vehicle Engineering Technology students have exclusive access to labs in the McMaster Automotive Resource Centre (MARC), which houses industry-scale labs, classrooms and equipment to prototype the vehicles of the future and research ways to make vehicle better, cleaner and greener.

Biotechnology

Biotechnology is an interdisciplinary field merging basic science, applied science and engineering. Study genetic engineering; cell biology, molecular biology and microbiology; analytical instrumentation; and bioprocessing. Students learn about the latest research in immunology, virology, genomics, proteomics and bioinformatics. With the combination of theoretical foundation and lab experience, you will be prepared for success in areas in genetic engineering and bioprocessing.

WHERE WILL YOU GO?
- Work in bio-fuel, food and pharmaceutical industries
- Monitoring quality control and assurance of biomaterials and bioproducts
- Work in bioinformatics, genetic and protein engineering, nanobiotechnology and biocomputation

TOP CO-OP EMPLOYERS:
- Sanofi Genzyme
- Government of Canada
- StemCell Technologies

DID YOU KNOW?
- Biotechnology students are the only undergraduate students at McMaster with access to a Level II Biosafety lab.
- Students complete a capstone project on leading-edge research in the biotechnology field.

BACHELOR OF TECHNOLOGY

Medical Engineering Design Team
+ Mac Dance
+ Women in Engineering
= Julee

Stand out from the crowd

“When you get into the job market, a lot of people are going to graduate with the same degree. We’re all going to the same school, we’re all going to gain the same skills and on paper we’ll look the same! But we need a personality to go with it, and getting involved in clubs and teams teaches us the soft skills that other people might not have.”

Julee Minniti
Biotechnology, Year 3
Scarborough
Computer Science takes the theoretical and brings it to life in practical applications.

Honours Computer Software is a direct-entry four year program where students learn programming, software design, systems and theoretical foundations. In five practice and experience courses, the emphasis at McMaster is on lab-based exploration and discovery, including expanded coverage of practical topics such as profiling and tuning, and foundational topics such as operating systems and compilers.

Program highlights:

- **Strong academics:** Comprehensive focus on programming, software design, systems and theory
- **Bright future:** Our students become skilled systems analysts, database specialists, software developers and system administrators
- **Tight-knit community:** Small class-sizes ensure one-on-one interaction with professors and instructors
- **Experiential learning:** Our students take the theoretical and bring it to life in practical applications, while participating in clubs such as McMaster Artificial Intelligence Society, McMaster Start Coding and DeltaHacks

**First year Courses**

- Introduction to Computational Thinking
- Introduction to Programming
- Computer Science Practice and Experience: Basic Concepts
- Engineering Mathematics I
- Engineering Mathematics II - A
- Engineering Mathematics II - B
- 4 elective courses

**Beyond First Year**

- In this program, 40 per cent of your curriculum is elective courses, making it possible to complete a minor alongside your degree if you choose to
- Computer Science students complete a culminating final year Capstone Project course and a Software Entrepreneurship course to wrap-up their experiential learning in fourth year

**Co-op and Future Careers**

- Our approach ensures that students understand the core fundamentals, which provides a key long-term advantage in the evolving job market
- Co-op students complete a minimum of 12 months of work experience through a combination of four-, eight-, 12- or 16-month co-op work terms
- **Future careers:** App Developers, Chief Information Officers, Database Developers, Information Security Analysts, Information System Designers, Systems Analyst and Programmers, Web e-Commerce Developers
- **Top co-op employers:** IBM, Google, Microsoft, Atlassian, Ontario Power Generation, Bell Canada, Hatch, McAfee, Advanced Micro Devices

- **77% of co-op work terms are 8-16 months long**
- More than 2/3 of students in the program graduate with co-op

**Did you know?**

- Computer Science students assisted an orthopedic surgeon by using augmented reality to simulate the placing of screws in the spine, producing an educational app through start-up funding
- In COMP SCI 363, students incorporate machine learning into a technical start-up idea and present how learning and data are differentiators in their product or service

A team of Computer Science students were selected for the IBM Centre for Advanced Studies “Project of the Year 2018” from 48 submissions from universities around the world

“As the PR head for DeltaHacks, I focused on ways to advertise the event to communities who wouldn’t otherwise hear about it. I wanted a more diverse applicant and attendee pool to ensure the event was inclusive.”

Biya Kazmi
Computer Science, Year 5
Mississauga

**DeltaHacks**
**Computer Science Society**
**Boxing**
= Biya

Someone in your corner
$1,000,000+ in entrance scholarships and research awards

APPLYING IS EASY:
One application = consideration for all scholarships

All scholarship winners receive an Engineering Research Experience Award, valued at $6,000+, for the summer after your first year.

Application deadline: February 14th, 2020
- Scholarships available include Dean’s Excellence Awards and Big Ideas Awards, as well as scholarships for participation in organizations like SHAD, FIRST Robotics and DECA.
- Open to both domestic and international students.

LEARN MORE: eng.mcmaster.ca/scholarships

Questions?
Contact us at thinkeng@mcmaster.ca

How to Apply
Five EASY steps

1. Apply online through OUAC
   Once you apply on OUAC, check your email for an acknowledgement letter. This will contain login details needed to check your application status on MOSAIC.
   Deadline: January 31st, 2020

2. Supplementary application
   A mandatory supplementary application is required for students applying into Engineering 1 and iBioMed.
   Deadline: January 16th, 2020

3. Apply for scholarships (optional)
   Consider applying for a scholarship with one application. Over $1,000,000 in entrance scholarships and research awards are offered.
   Deadline: February 14th, 2020

4. Submit additional documents (if required)
   Documents could include English Language Proficiency, Transcripts
   Early Deadline: February 15th, 2020
   Deadline: April 1st, 2020
   Be sure to check your admission requirements listed on MOSAIC.
   Current Ontario high school students: your grades will be sent automatically from your school.

5. Accept your offer
   Accept through OUAC by the deadline stated on your offer letter.
   Don’t forget to apply to residence with a deposit before the deadline.
   Residence Deadline: June 1st, 2020

ENGLISH PROFICIENCY
TEST SCORE TOO LOW?
The MELD diploma is designed for students whose primary language is not English and who wish to pursue their undergraduate studies at McMaster University.
Please contact meld@mcmaster.ca with questions.

MONEY MATTERS
Domestic Tuition (based on 2019-2020)
- Eng & iBioMed: 37 units: $12,446
- CompSci 30 units: $7,997
- B.Tech. 30 units: $7,973

Visit future.mcmaster.ca/money-matters for bursaries, scholarships, financial aid, employment opportunities and more!

IMPROVING YOUR SAT
- American Curriculum
  SAT – minimum overall score of 1200 or greater (Reading/Math sections only) with minimum scores of 600 in each section
  ACT – minimum composite score of 27 or greater
  Please visit future.mcmaster.ca/admission for specific course and AP requirements.

Indigenous Students
First Nation, Metis and Inuit applicants are encouraged to contact McMaster’s Indigenous Student Services office for assistance in navigating the application process. Programming and resources such as cultural and social events, Elders in Residence and academic supports are available.

International Students
International Applicants are encouraged to visit future.mcmaster.ca/admission or contact thinkeng@mcmaster.ca for details on admission requirements.
International applicants are eligible for all Faculty of Engineering entrance awards.
Applicants to Engineering and B.Tech. may also be eligible for additional scholarships, see www.eng.mcmaster.ca/scholarships for details.

First round of offers typically goes out in mid-March (excluding iBioMed), with another round following in early May (all programs)
Visit future.mcmaster.ca/admission for full details.

AUTOMATIC ENTRANCE SCHOLARSHIPS
(grades-based, no application required)
- President’s Award
  $2,500 95%+
- Honour Awards
  $1,000 90%-94.99%
  $750 88%-89.99%
- B.Tech. Entrance Award
  $2,000 88%+

Visit eng.mcmaster.ca/scholarships for more information on available awards.

American Curriculum
SAT – minimum overall score of 1200 or greater (Reading/Math sections only) with minimum scores of 600 in each section
ACT – minimum composite score of 27 or greater
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IB and AP students
For more information on course requirements and advanced credit, please go to future.mcmaster.ca/admission or email us at thinkeng@mcmaster.ca

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Supplementary application
Eng 1 and iBioMed applicants are required to submit a mandatory supplementary application. The application consists of 1 written and 3 video responses with unlimited practice sessions. How you respond to these questions is an opportunity for us to learn more about who you are.

Timelines
First round of offers typically goes out in mid-March (excluding iBioMed), with another round following in early May (all programs)
Visit future.mcmaster.ca/admission for full details.

Questions?
Contact us at thinkeng@mcmaster.ca

Connect with a student
Go to www.eng.mcmaster.ca/future-students/connect to connect with a current student!

Apply for our Faculty of Engineering Entrance Awards!
Visit: eng.mcmaster.ca/scholarships

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Connect with a student
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To visit us, book a tour online at:
www.eng.mcmaster.ca/future

ON-CAMPUS EVENTS

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<tr>
<th>Event</th>
<th>Dates</th>
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<td>Fall Preview</td>
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<tr>
<td></td>
<td>November 16, 2019</td>
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<tr>
<td>March Break Events</td>
<td>March 16 - 20, 2020</td>
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<tr>
<td>May@Mac Open House</td>
<td>May 9, 2020</td>
</tr>
</tbody>
</table>

Note: Current at time of printing. For the most current information please refer to the McMaster University web site.