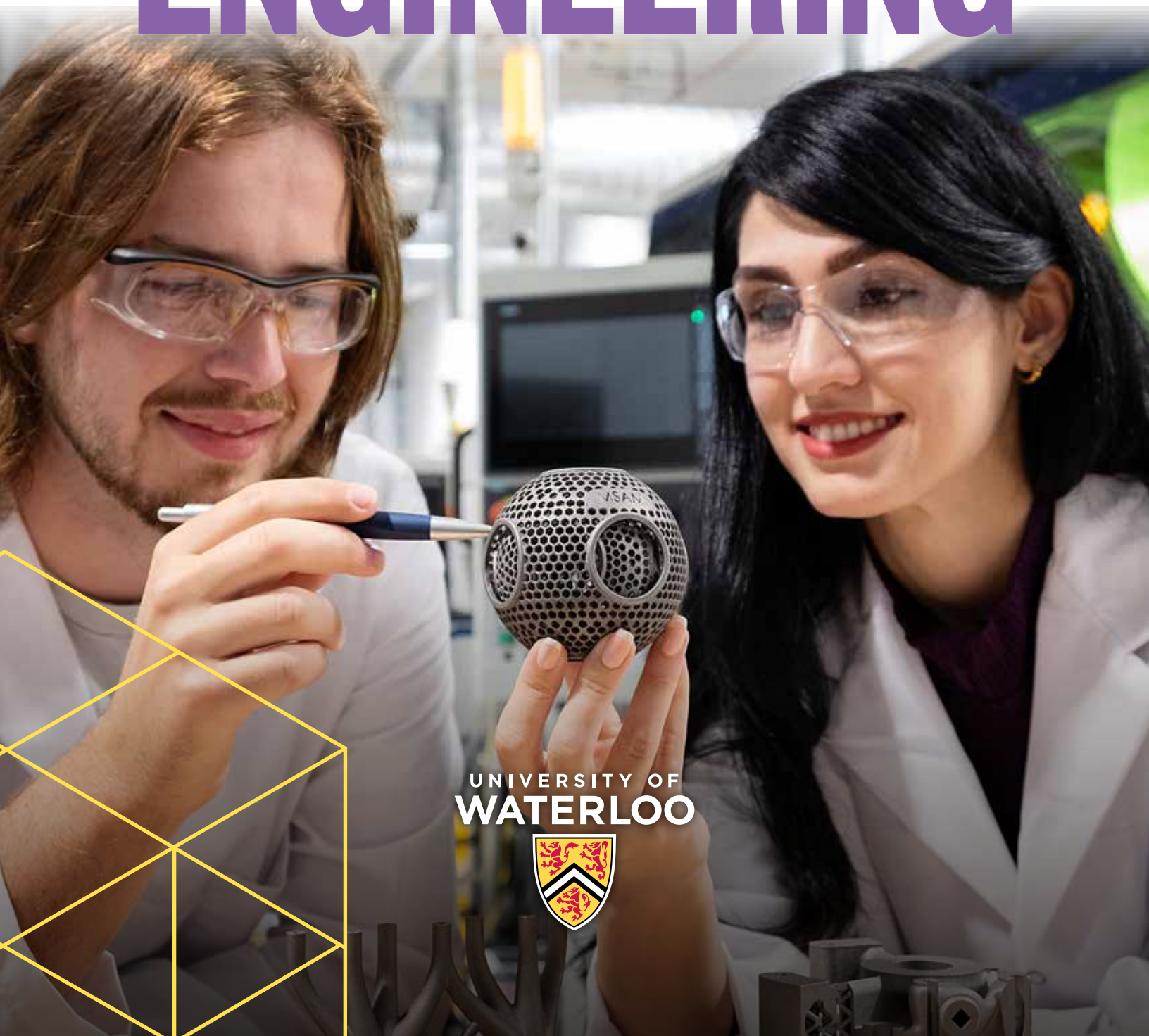
GRADUATE DEGREES | ADMISSIONS 2025

WATERLOO ENGINEERING



UNIVERSITY OF WATERLOO

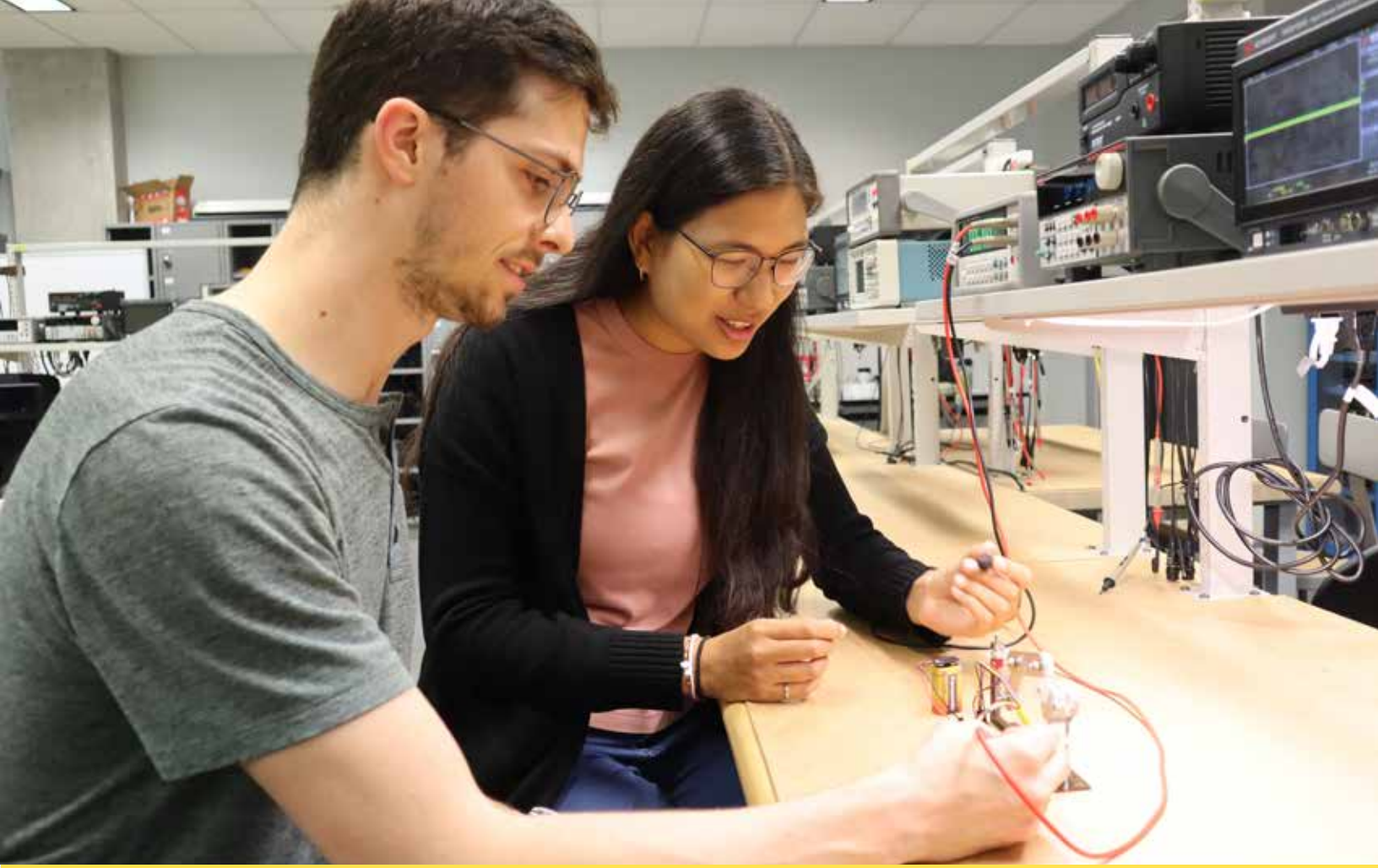
DISCOVER

GRADUATE STUDIES

at Waterloo Engineering

MENU

REQUEST MORE INFORMATION



AT WATERLOO

IP POLICY 100%

of the ideas developed at Waterloo are owned by you

YOUR IDEAS, YOUR INTELLECTUAL PROPERTY

Our policy on intellectual property gives both faculty and students complete ownership over their ideas and technology. That puts you in control to patent or license your idea, to commercialize it or even start your own company.

VISIT OUR GRADUATE STUDIES PAGE

Learn more about our programs, get tips on how to apply, read student stories, watch our latest videos and more ...

DISCOVER

TACKLE REAL-WORLD PROBLEMS

If unanswered questions motivate you and collaboration with brilliant colleagues inspires you, Waterloo Engineering offers you the ideal path forward. Our graduate programs invite exceptional people like you to advance solutions for real-world problems.

EXCELLENCE IN RESEARCH

22 CANADA Research Chairs

62 EARLY RESEARCHER AWARD RECIPIENTS

1 CANADA 150 Research Chair

1 CANADA EXCELLENCE Research Chair

16 UNIVERSITY Research Chairs

5 ENDOWED Research Chairs

5 INDUSTRY Research Chairs

As Canada's largest engineering school, Waterloo Engineering is home to an active and growing graduate student community of more than 2,100 motivated, curious and passionate problem solvers who are changing the world we live in.

RANKED #1
TOP COMPREHENSIVE RESEARCH UNIVERSITY
in Canada, comprehensive for the past 15 years (*Resource Infosource*)

INNOVATIVE UNIVERSITY
in Canada (*Maclean's 2023*)

100+ UNIQUE graduate funding types available

#3 IN CANADA FOR ENTREPRENEURS (*PitchBook 2024*)

2,100+ GRADUATE STUDENTS

330+ FACULTY MEMBERS

$82+ MILLION sponsored research funds

ENGINEERING INFRASTRUCTURE across **18** buildings

150+ MAJOR AWARDS won by graduate students totalling **$1.5+M**

TOP 50 ENGINEERING SCHOOL IN THE WORLD (*QS World University Ranking, 2022*)

GRADUATE STUDIES

at Waterloo Engineering

WHY STUDY AT THE UNIVERSITY OF WATERLOO?

REPUTATION IN ACADEMICS

Home to Canada's largest engineering school, our students and world-renowned faculty members are known for solving problems that change the world we live in.

CAREER DEVELOPMENT AND NETWORKING

The Waterloo Region is one of Canada's fastest-growing technology hubs where both industry-leading businesses and startups thrive. Many of our graduate students focus their research on industry-relevant solutions. Some develop these solutions into businesses through the local incubator programs. Our faculty members are well-integrated with key industry players, developing lasting partnerships, while tackling real-world problems.

ATTRACTIVE LIFESTYLE

Not only is Waterloo home to an array of startups and tech giants, it's also a good place to live. It offers a vibrant food scene with something for everyone from farmers' markets to vegan cafés and award-winning restaurants. Visitors and residents can enjoy lively cultural events, music festivals as well as the world's largest Oktoberfest outside of Germany. Waterloo is a fast-growing city with a relaxed small-town character. Surrounded by beautiful countryside and located in easy distance from Toronto, Waterloo is a great place to call home.

CONNECTION TO THE COMMUNITY

Waterloo Engineering engages with its broader community through a variety of outreach programs. By igniting people's natural curiosity and sharing the wonders of science and engineering, the University is building a culture of lifelong learning, discovery and invention.

YOUR PATH TO SUCCESS

NEGIN BOUZARI (PhD candidate MASc '23), winner of the nanofellowship competition awarded to top graduate students persuing nanotechnology research at the University of Waterloo.

"If you are interested in pursuing graduate studies, the only advice I have for you is to go for it! You will experience some difficult moments in your student life, as you might experience in any other profession, however, the surge of pride and happiness that you will experience after accomplishing your research goals (even small), in my opinion, is something unique that is worth the difficulties!"

"My research focuses on Water and I have Waterloo Engineering to thank for that. The Faculty got me hooked by enabling and encouraging interdisciplinary water research with other faculties as well as with the University's Water Institute. My engineering student experience was incredibly diverse and gave me a multi-faceted foundation to build into a career that goes beyond the traditional siloed approach."

DR. FREDERICK CHENG (PhD '22, MASc '17, BASc '15), postdoctoral researcher in the ecosystem science and sustainability department at Colorado State University and recently joined the University of Virginia as an assistant professor of environmental sciences.

"My research interests led me to do my master's degree and my entrepreneurial pursuits brought me back for my PhD. Waterloo's unique intellectual property (IP) Policy 73 was a strong pull factor – any innovation created by students and/or faculty members belongs to them rather than the University."

NEIL SARKAR (PhD '14, MASc '04, BASc '01), CEO of AdHawk Microsystemsm who recently launched MindLink Air™, everyday glasses that can read its wearer's eye health and cognitive state using research-grade, camera-free eye-tracking technology.

ENTREPRENEURIAL POWERHOUSE

18.6% OF TECH FOUNDERS IN CANADA GRADUATE FROM THE UNIVERSITY OF WATERLOO

(Nationally UW represents only 3.6% of the grad student population)

Waterloo students, researchers and alumni have founded

1,000+ STARTUPS, SPIN OFFS AND MATURE COMPANIES

WHERE WILL A GRADUATE DEGREE TAKE YOU?

59%
INDUSTRY OR ENTREPRENEURSHIP

41%
ACADEMIC

WATERLOO ENGINEERING PhD GRADUATES ARE EMPLOYED GLOBALLY

Our recent PhD graduates work for some of the top employers in academia and industry or start their own industry-leading companies.

EXAMPLES OF EMPLOYERS:

INDUSTRY EMPLOYERS:

› Tesla, Google, IBM, Microsoft, Apple, Uber, Goldman Sachs, Honeywell, Siemens, Oracle

UNIVERSITY EMPLOYERS:

› Stanford, UBC, U of T, Yale, Purdue, Harvard, MIT

COMPANIES STARTED BY OUR GRADS:

› Smarter Alloys, SMATS Traffic Solutions, SSIMWave, AdHawk Microsystems, FleetCarma

FIND THE ENGINEERING PROGRAM THAT'S RIGHT FOR YOU

PROGRAMS

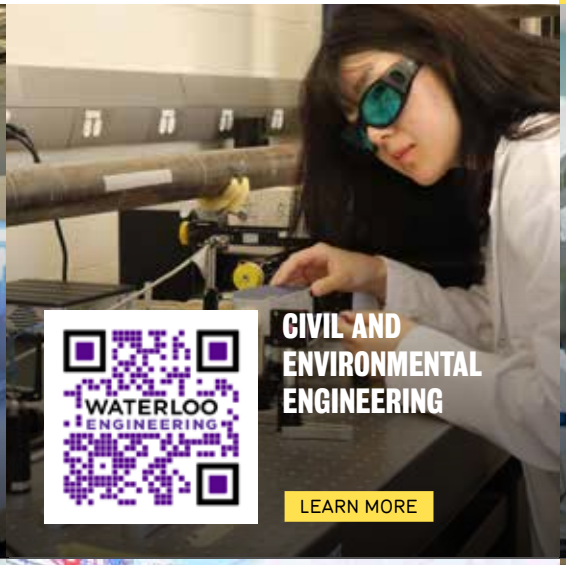
DEPARTMENT PROGRAM	PROGRAM INFORMATION
Doctor of Philosophy (PhD)	› Research-based program. › 3-4 courses + original research and thesis. › Duration: 4 years. › No supervisor is required at the application stage. A supervisor is needed before receiving an offer of admission. › Minimum funding provided: $30,000/year*. › In addition to minimum funding, eligible for Teaching Assistantships (TA) and Research Assistantships (RA). › Direct Entry PhD (from a Bachelor's degree) is an available option for top applicants (7-8 courses). *May increase in the future.
Master of Applied Science (MASc)	› Research-based program. › 4-5 courses + original research and thesis. › Duration: 2 years. › No supervisor is required at the application stage. A supervisor is needed before receiving an offer of admission. › Minimum funding provided: $18,000/year. › In addition to minimum funding, eligible for Teaching Assistantships (TA) and Research Assistantships (RA). › Eligible students can transfer to a PhD.
Master of Engineering (MEng) **Master of Engineering Co-op (MEng Co-op)** **Master of Management Science (MMSc)** **Master of Management Science Co-op (MMSc Co-op)** **Online MMSc Management of Technology (MMSC MoT)**	› Coursework-based programs. › 8-9 courses. › Duration: 1 to 1.5 years. › No supervisor. › Student needs to be self-funded. › Eligible students can transfer to a MASc.
Graduate Diplomas (GDip) Direct Entry	› Course-based program › 4 courses › Direct entry programs: GDip in Electric Power Engineering | GDip in Fire Safety | GDip in Data Analytics

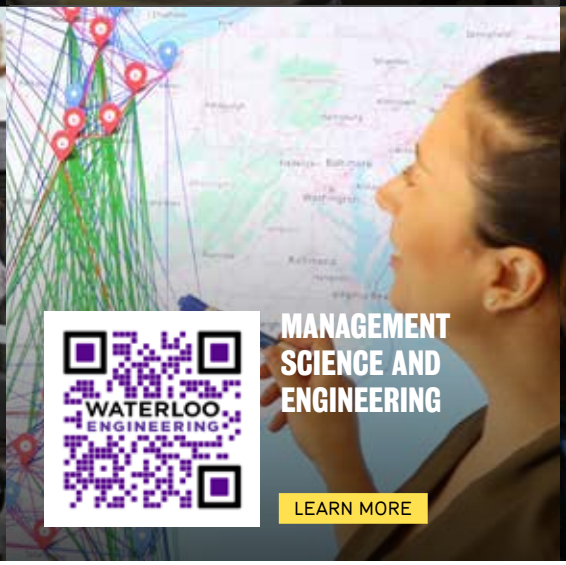
ENGINEERING DEPARTMENTS

CANADA'S LARGEST ENGINEERING SCHOOL

Waterloo Engineering offers professional and research graduate programs in its six departments and two schools.

NEW BIOMEDICAL ENGINEERING
Program coming soon





CHEMICAL ENGINEERING

MEng SPECIALIZATIONS

› Biological Engineering
› Entrepreneurship
› Polymer Science and Engineering
› Process Systems Engineering

MASc AND PhD RESEARCH AREAS

› Electrochemical engineering
› Biotechnology and Biomedical engineering
› Process systems engineering
› Nanotechnology for advanced materials
› Sustainable reaction engineering

ENGINEERING DEPARTMENTS

MMSc SPECIALIZATION

› Data Analytics

MASc AND PhD RESEARCH AREAS

› Optimization and decision making
› Machine learning and artificial intelligence
› Supply chain management and logistics
› Design and innovation management
› Health care operations analytics
› Human-computer and human-AI interaction
› Organization and human behavior
› Search engines and natural language processing

MANAGEMENT SCIENCE AND ENGINEERING

CIVIL AND ENVIRONMENTAL ENGINEERING

MEng SPECIALIZATION

› Nuclear Engineering

MASc AND PhD RESEARCH AREAS

› Environmental and water resources engineering
› Geotechnical engineering
› Structures, mechanics and construction engineering
› Transportation engineering

MEng SPECIALIZATIONS

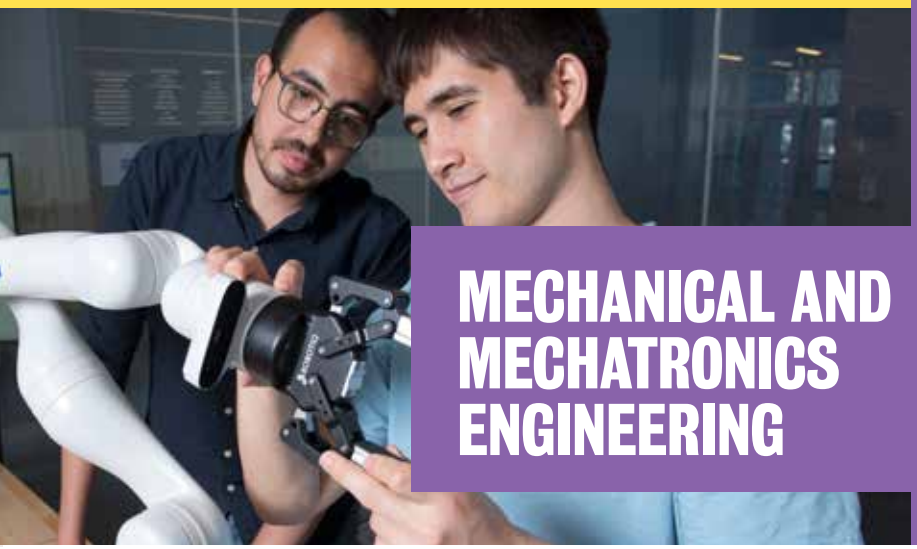
- Artificial Intelligence and Machine Learning
- Biomedical Engineering
- Business Leadership
- Computer Networking and Security
- Nanoelectronic Circuits and Systems
- Nanoelectronic Devices and Materials
- Quantum Engineering (coming in 2025)
- Software
- Sustainable Energy

MASc AND PhD RESEARCH AREAS

- Antennas, microwaves and wave optics
- Biomedical engineering
- Circuits and systems
- Communications and information systems
- Computer hardware
- Computer software
- Nanotechnology
- Quantum information
- Pattern analysis and machine intelligence
- Power and energy systems
- Silicon devices and integrated circuits
- Systems and controls
- Very large-scale integration
- Wireless communication

ELECTRICAL AND COMPUTER ENGINEERING

AND PROGRAMS



MECHANICAL AND MECHATRONICS ENGINEERING

MEng SPECIALIZATIONS

- Green Energy
- GDip in Fire Safety

MASc AND PhD RESEARCH AREAS

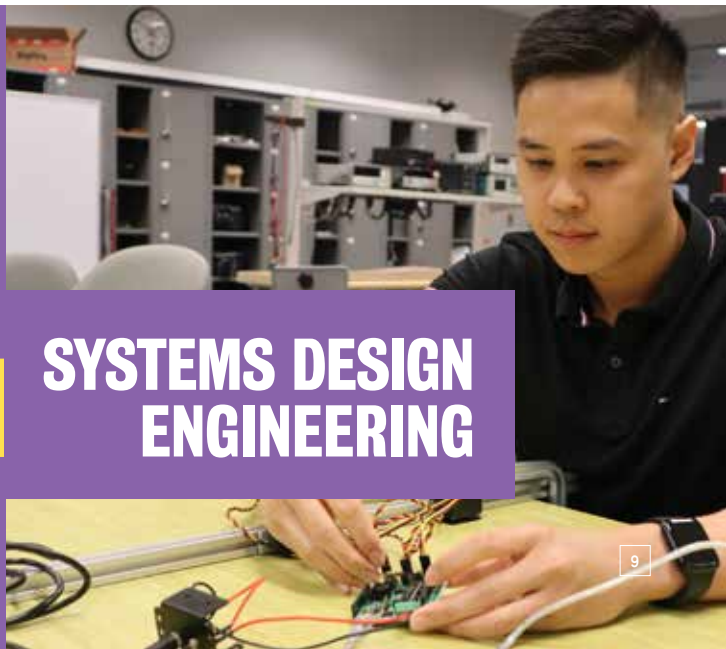
- Automation and controls
- Fluid mechanics and fire behaviour
- Materials engineering processing
- Solid body mechanics and design
- Thermal engineering

MEng SPECIALIZATIONS

- Artificial Intelligence and Machine Learning
- Biomedical Systems
- Human Factors
- Mechatronics and Physical Systems
- Vision, Image and Signal Processing

MASc AND PhD RESEARCH AREAS

- Human Factors and Ergonomics
- Machine Learning and Intelligence
- Mechatronic and Physical Systems
- Modelling, Simulation and Systems Theory
- Optimization and Decision Making
- Societal and Environmental Systems
- Vision, Image and Signal Processing



SYSTEMS DESIGN ENGINEERING

DISCOVER OUR COLLABORATIVE PROGRAMS

LEARN MORE

Waterloo Engineering promotes interdisciplinary learning with different perspectives.

AERONAUTICS

Supported by all 6 faculties and the industry and government network of the Waterloo Institute for Sustainable Aeronautics, the Collaborative Aeronautics Program (CAP) is an entirely new approach to Masters and Doctoral studies in aeronautics.

Look for MASc and PhD Collaborative programs in Aeronautics in the Departments of:

- Systems Design Engineering.
- Electrical and Computer Engineering.

Collaboration with all 6 faculties:
Engineering, Arts, Environment, Health, Mathematics and Science.

NANOTECHNOLOGY

Through the collaborative graduate program in Nanotechnology the students are exposed to rich, broad and integrated educational resources, a diverse network of expertise and world-class research opportunities that leverage their engineering degrees.

Look for MASc and PhD Collaborative programs in Nanotechnology in the Departments of:

- Chemical Engineering.
- Electrical and Computer Engineering.
- Mechanical and Mechatronics Engineering.
- Systems Design Engineering.

Collaboration with faculties of:
Engineering and Science.

Our University community is connected, we understand that shared success makes us all stronger. We have developed collaborative programs where students complete their specialist training in their respective home departments or school while working with students from a variety of disciplines.

NEW HEALTH TECHNOLOGIES

Collaborative program coming soon

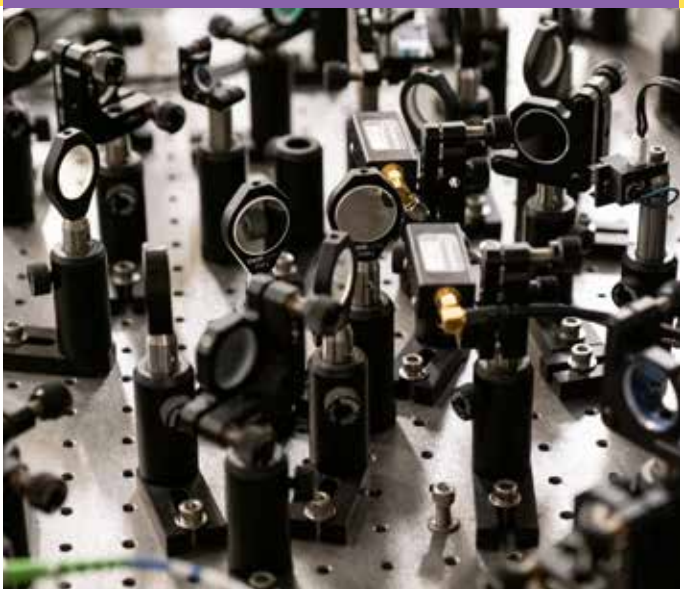
QUANTUM INFORMATION

The Institute for Quantum Computing offers graduate students unique opportunities to learn and engage in world-leading research in quantum information through a wide range of advanced research projects and advanced courses on the foundations, applications and implementation of quantum information processing.

Look for MASc and PhD Collaborative programs in Quantum Information in the Departments of:

- Electrical and Computer Engineering.

Collaboration with faculties of:
Engineering, Mathematics and Science.



WATER

Co-delivered by 11 departments and schools across all 6 faculties and supported by the Water Institute, the Collaborative Water Program is Canada's most interdisciplinary water graduate program, training the next generation of leaders.

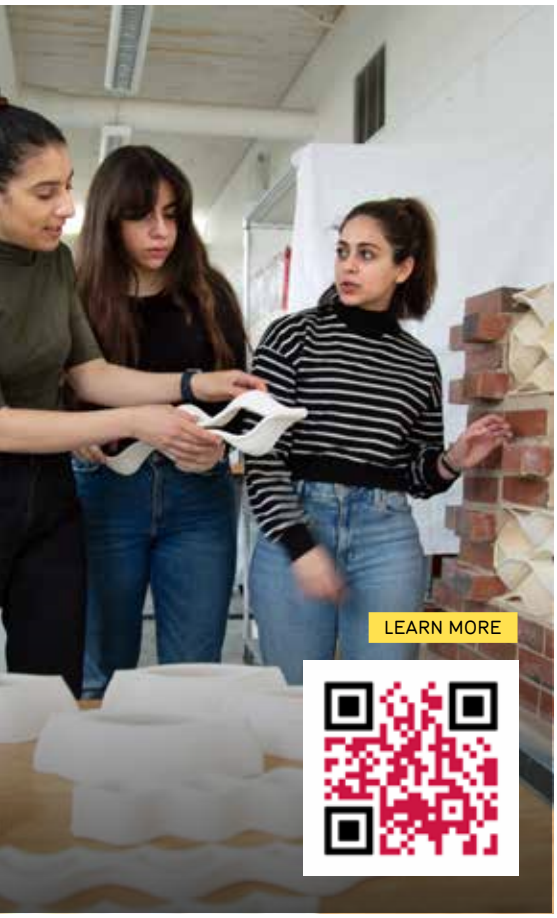
Look for MASc and PhD Collaborative programs in Water in the Departments of:

- Chemical Engineering.
- Civil and Environmental Engineering.
- School of Architecture.

Collaboration with all 6 faculties:
Engineering, Arts, Environment, Health, Mathematics and Science.

FIND THE PROGRAM BY SCHOOL THAT'S RIGHT FOR YOU

SCHOOL OF ARCHITECTURE



PROGRAMS	PROGRAM INFORMATION
Master of Architecture (MArch) **Master of Architecture – Water (MArch)*** **Master of Architecture Co-op (MArch Co-op)**	› Research-based professional program + original research and thesis. › Research subject is selected by the student, a Supervisor will be selected after completing at least one term of study. › Student needs to be self-funded. › Teaching Assistantships, Research Funding and Scholarships are available. *The water program is jointly offered by ten departments across the University, some courses will be on campus in Waterloo

RESEARCH AREAS

› Data Visualization
› Digital Design and Fabrication
› Urbanization
› Globalization
› Climate and Spatial Justice
› New Materials Economies
› Northern and Indigenous Architecture
› Landscape and Ecology
› History & Theory

CONRAD SCHOOL OF ENTREPRENEURSHIP AND BUSINESS PROGRAMS

PROGRAMS	PROGRAM INFORMATION
Doctor of Philosophy (PhD)	› Research-based program. › 3-4 courses + original research and thesis. › Duration: 4 years. › No supervisor is required at the application stage. A supervisor is needed before receiving an offer of admission. › Minimum funding provided: $30,000/year*. › In addition to minimum funding, eligible for Teaching Assistantships (TA) and Research Assistantships (RA). › Direct Entry PhD (from a Bachelor's degree) is an available option for top applicants. *May increase in the future.
Master of Business, Entrepreneurship, and Technology (MBET)	› Coursework-based programs. › 10 courses. › Duration: 1 to 1.5 years. › No supervisor. › Student needs to be self-funded. › Eligible students can transfer to a MASc.
Graduate Diploma in Business and Entrepreneurship (GDip)	› Course-based program. › 6 courses.

RESEARCH AREAS

› New venture creation
› Small business and entrepreneurship
› Entrepreneurial strategy
› Entrepreneurship policy
› Entrepreneurial organizations
› Family-owned organizations
› Organizing entrepreneurial firms
› Entrepreneurial cognition and decision-making
› Corporate and social entrepreneurship
› Innovation and strategic renewal within existing organizations
› Organizational management and leadership

ADMISSION REQUIREMENTS

Check specific admission requirements by your program of interest: minimum GPA, application materials (resume, supplementary information form, transcripts), number and type of references, GRE (if applicable) and ELP (if applicable).

PROGRAMS ADMISSION REQUIREMENTS

APPLICATION DEADLINES

Application deadlines are six months before the beginning of the term you would like to start your program. Most of the programs start every four months, but a few start only in the September/Fall term.

ENGINEERING DEPARTMENTS AND SCHOOL OF ARCHITECTURE

Intake September/Fall – February 1
Intake January/Winter – June 1
Intake May/Spring – October 1

CONRAD SCHOOL OF ENTREPRENEURSHIP AND BUSINESS TECHNOLOGY

MBET: Intake September/Fall – June 1
PhD: Intake September/Fall – April 1
GDip: Intake September/Fall – June 1
Intake January/Winter – October 1
Intake May/Spring – Feb 1

DID YOU KNOW...

01
If you applied for a direct entry co-op program and are not admitted, you may be considered for admission to the regular course-based master's program.

02
You can transfer from MEng to MASc if you find a supervisor.

03
You can transfer from MASc to the PhD.

04
For exceptional students, direct entry (from Bachelor's) to PhD is allowed.

INTERNATIONAL STUDENTS

FIND OUT MORE

about international admission equivalences, English language proficiency (ELP) requirements, and the option to take the English for Academic Success (EFAS) program.

HOW TO APPLY

Join the ranks of elite Waterloo Engineering graduate students:

1

EXPLORE OUR PROGRAMS

Waterloo Engineering is continually creating innovative new programs and specializations. Find out about our new and existing programs, departments and schools online.

2

REVIEW ADMISSION REQUIREMENTS

Each program has specific admission requirements, so be sure to explore your program of interest on the Graduate Studies and Postdoctoral Affairs site to find this information.

3

UPLOAD DOCUMENTS AND APPLY

Understand the types of admission, the requirements for English language proficiency, application documents, supervisor and references. Then, apply and upload your documents using our online graduate application system.

You may also choose to contact professors in your research areas to know about potential opportunities for MASc and PhD, prior to or after applying. However, you are not obliged to do this, all professors will have access to the applications.

SEE PAGES 16-17

HOW TO FIND RESEARCH AREAS AND SUPERVISORS

Investing time and effort into your search and connecting with potential supervisors prior to applying will give you a strong start.

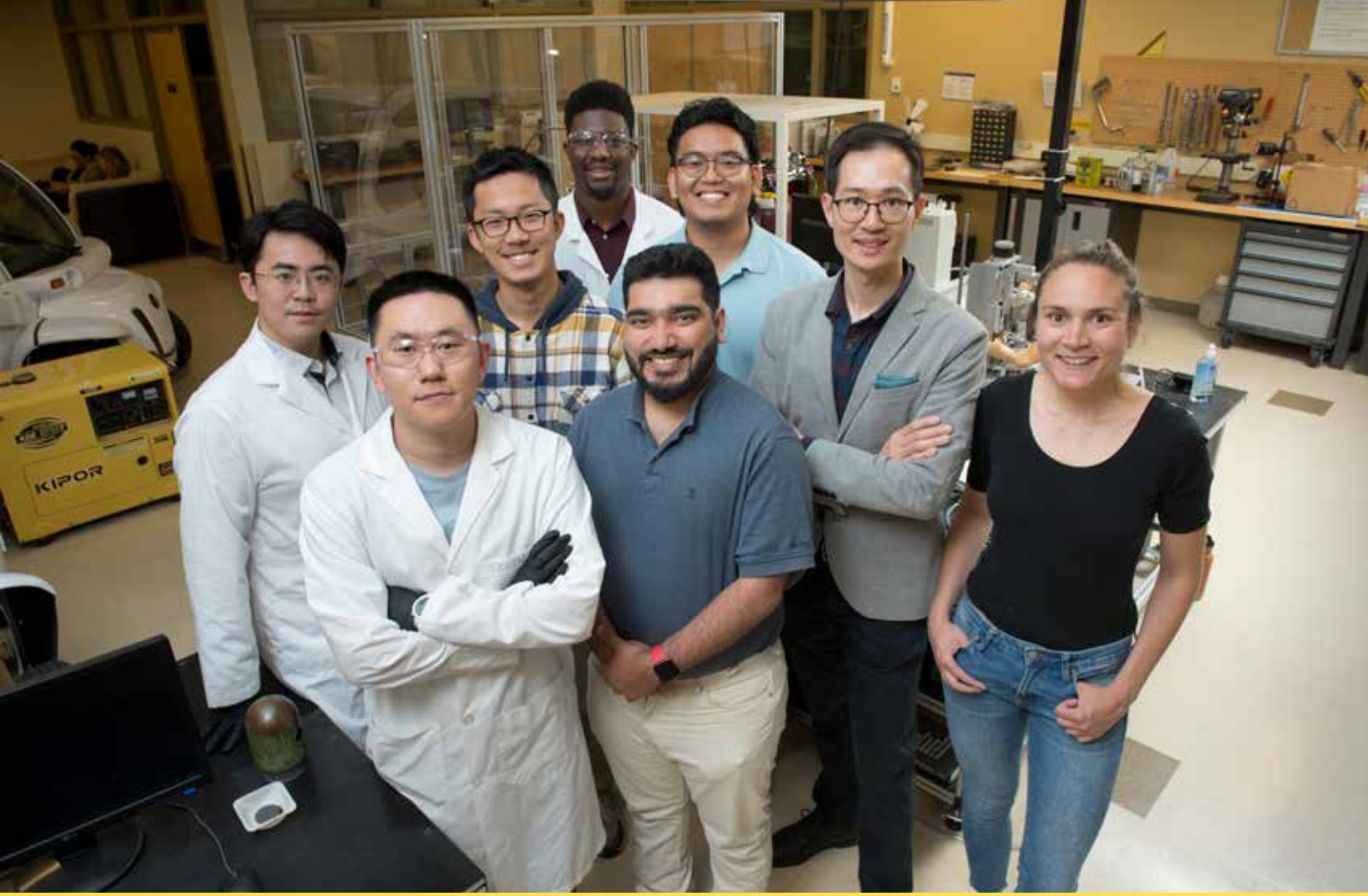
FIND A SUPERVISOR

WHEN DO I NEED A SUPERVISOR?

› Course-based programs (MEng/MMSc/MBET) do not require a supervisor.

› No supervisor is required at the application stage for research-based programs (MASc or PhD). A supervisor is needed before receiving an offer of admission.

› For the MArch, the research subject is selected by the student, and a supervisor will be selected after completing at least one term of study.



OPTION 1: SEARCH BY DEPARTMENT

When looking for a supervisor, check the research areas by department or school. Once you identify an area of interest, click to find a list of supervisors. Then, click on the name of a supervisor to view their profile and contact information. Check the last paragraph of their profile page to find out if they are accepting graduate students.

OPTION 2: SEARCH BY RESEARCH AREA

Waterloo Engineering researchers are driving innovative discoveries that are advancing knowledge and improving lives globally. Access Waterloo Engineering's faculty database to search for a specific supervisor or research area of expertise.

NO ANSWER FROM ANY SUPERVISOR BEFORE APPLYING?

No worries! Go ahead with the application and optionally indicate the supervisors you would like to work with. All professors will have access to your application.

UNRIVALLED RESEARCH FACILITIES

As a Waterloo Engineering graduate student, you'll study topics and conduct research that matters in industry and beyond, learning from the experts exploring the latest innovations.

INFRASTRUCTURE THAT MATTERS

Our buildings include multi-media teaching facilities and world-class research laboratories. We're home to the largest cluster of super-computers in all of Canada, our machine shop is one of the best equipped among Canadian universities, and our nanotechnology labs are furnished with the latest equipment and technology.

Our latest building, Engineering 7 (E7), is a state-of-the-art facility with RoboHub for autonomous and robotic vehicle research. This dedicated research space, coupled with entrepreneurial support areas, brings a wealth of new opportunities and resources for graduate students like you.

RESEARCH CENTRES AND INSTITUTES

Centres and institutes are established in areas where Waterloo has extraordinary research strengths and anticipates extraordinary results.

- Centre for Advanced Materials Joining
- Centre for Bioengineering and Biotechnology (CBB)
- Centre for Intelligent Antenna and Radio Systems
- Centre for Pattern Analysis and Machine Intelligence
- Centre for Pavement and Transportation Technology
- Giga-to-Nanoelectronics Centre (G2N)
- Cybersecurity and Privacy Institute (CPI)
- Institute for Polymer Research (IPR)
- Institute for Quantum Computing (IQC)
- Water Institute
- Water Artificial Intelligence Institute (Waterloo.AI)
- Waterloo Centre for Automotive Research (WATCAR)
- Waterloo Centre for Microbial Research (WCMR)
- Waterloo Climate Institute
- Waterloo Institute for Nanotechnology (WIN)
- Waterloo Institute for Sustainable Energy (WISE)

FIND MORE INFORMATION

A WORLDWIDE REPUTATION FOR RESEARCH

ADDITIVE AND ADVANCED MANUFACTURING

Waterloo's Centre for Advanced Materials Joining and Multi-Scale Additive Manufacturing, the MSAM lab, offers world-class facilities and access to researchers who regularly collaborate with leading companies to develop new and innovative technologies for materials joining and manufacturing processes.

INFORMATION AND COMMUNICATIONS TECHNOLOGY

Research sub-areas span all aspects of communications and information systems from theory to practice, including information theory, stochastic processes, statistical signal processing, coding and network codes, multimedia compression, pseudorandom sequences, cryptography, signal and image processing, digital communications, spread spectrum communications, wireless communications, wireless/Internet networking, broadband networks, optical networks, cooperative and cognitive networks, multiple-input multiple-output (MIMO) systems, space-time communications, wireless security, and communication security.

BIOMEDICAL ENGINEERING AND BIOTECHNOLOGY

The Centre of Bioengineering and Biotechnology improves human health with strong links with local hospitals, industry, municipalities, and other universities.

AUTOMOTIVE AND INTELLIGENT TRANSPORTATION SYSTEMS

Waterloo's Centre for Automotive Research is the largest automotive-academic enterprise in Canada with over 125 researchers. In related work, the newly-founded Waterloo Artificial Intelligence Institute is focusing on foundational artificial intelligence with applications in transportation by means of autonomous vehicles, machine learning and beyond.

WATER

Waterloo's Water Institute includes over 150 faculty members from across campus, collaborating to change the future of water science, technology and policy.

ARTIFICIAL INTELLIGENCE (AI)

The real-world potential of AI is limitless. Engineering researchers are developing intelligent systems that can detect cancer and heart disease, understand language and emotion, and navigate roadways and factories better than ever before. Our focus on researching key AI technologies, and the foundational breakthroughs to make them a reality, will accelerate innovation in this space.

ENERGY AND INFRASTRUCTURE

The Waterloo Institute for Sustainable Energy works closely with industry, government, and the non-profit sector to shape public attitudes, inform energy policies, and improve quality of life around the globe.

NANOTECHNOLOGY

Researchers in the Waterloo Institute for Nanotechnology collaborate across nine disciplines to discover and create innovation in nano-biosystems, nano-electronics, nano-instrumentation and nano-materials.

FINANCIAL SUPPORT

Funding is available from many sources including scholarships, awards, teaching assistantships and government agency fellowships and awards.

FUNDING AND SCHOLARSHIPS

1 GUARANTEED MINIMUM FUNDING

All full-time students in the MASc and PhD programs are guaranteed a minimum level of funding while they are within their program time limits and in good academic standing. You will use this to pay your tuition and then the rest, if applicable, will be deposited into your bank account.

Plan	Duration	Amount (per year)
PhD (from a complete Master's)	12 terms (4 years)	$30,000*
PhD (directly from a Bachelor's)	15 terms (5 years)	$30,000*
MASc	6 terms (2 years)	$18,000
MEng / MMSc / MBET/ MARch		No guaranteed funding

*May increase in the future.

2 ADDITIONAL TO THE MINIMUM FUNDING

Graduate Teaching Assistantships (TA) and Graduate Research Assistantships (RA) are available to selected students and are paid on top of any awards and scholarships they are already receiving.

GRADUATE TEACHING ASSISTANTSHIPS (TA)*

Effective date	Per term	Per month	Per hour
May 1, 2024	$7,674.48	$1,918.62	$47.97

*Rates assume 10 hours per week for 16 weeks during a term, paid for by the hiring department.

GRADUATE RESEARCH ASSISTANTSHIPS (RA)**

Effective date	Position	Per term	Per month	Per hour
May 1, 2024	RA - Master's	$7,318.34	$1,829.59	$45.74
	RA - Doctoral	$8,707.78	$2,176.94	$54.42

** Paid for by the faculty supervisor.

3

100+
AWARDS
and fellowships

WATERLOO INTERNAL AWARDS AND SCHOLARSHIPS

Use the GSPA awards database to learn more about financial support provided by the University of Waterloo. Find entrance awards, scholarships and faculty/ departmental level awards.

ENGINEERING DEAN'S ENTRANCE AWARDS (DEA)

Valued at $5,000 these awards are for Canadian Citizens or Permanent Resident applicants of full-time MASc and PhD programs with an academic average of min. 85%. See all details and conditions.

PROVOST DOCTORAL ENTRANCE AWARD – WOMEN (PDEAW)

Valued at $5,000. Eligible Doctoral students must have a minimum first-class (80%*) standing, as well as an outstanding record of research accomplishments and/or references citing significant future potential in research. Limited budget is available.

INDIGENOUS AND BLACK ENGINEERING TECHNOLOGY MOMENTUM FELLOWSHIP (IBET)

Valued at $30,000 per year. Available annually for doctoral Canadian Cititizens or Permanent residents of Canada that identify as Indigenous or Black.

IRON RING GRADUATE SCHOLARSHIP

Varies up to a maximum of $5,000. Open to any graduate of the Faculty of Engineering. It will be awarded to a student undertaking Masters's research in Engineering.

Budgeting is one of the most important factors when it comes to planning your graduate studies. Find out about tuition, study and living cost, and a useful budget calculator.

TUITION

Tuition fees are assessed based on your domestic residency status or international immigration status.

STUDY AND LIVING COSTS

The Waterloo Region is an exciting place to live. Enjoy the amenities of a big city without the big city costs. Approximate cost of living information is available online.

BUDGET CALCULATOR

Use the tuition calculator to estimate your costs and resources.

TUITION AND BUDGET

4 EXTERNAL AWARDS

› Canada Graduate Scholarship – Master's program (CGS M). Tri-Agency (NSERC, SSHRC, CIHR): $27,000/year for 1 year.

› Canada Graduate Scholarships – Doctoral program (CGS D). Tri-Agency (NSERC, SSHRC, CIHR): $40,000/year for 3 years.

› NSERC Post-graduate Scholarships – Doctoral program (PGS D): $40,000/year value for 2-3 years.

› Vanier Canada Graduate Scholarship : $50,000/year for 3 years.

› Ontario Graduate Scholarship (OGS) and the Queen Elizabeth II Graduate Scholarship in Science and Technology (QEII-GSST): $15,000/year for 1 year.

Recipients of NSERC, SSHRC, or CIHR Scholarship who hold their scholarship at Waterloo are also eligible to receive the Waterloo **President's Graduate Scholarship (PGS) top-up to $10,000+ each year.**

5 INTERNATIONAL STUDENT SUPPORT

INTERNATIONAL DOCTORAL STUDENT AWARD (IDSA)

$15,420 / year for 4 years

An IDSA will be provided automatically to all international students who are registered full-time in a doctoral program. The value is approximate to the difference in tuition between domestic and international full-time PhD students. The award's value and duration varies depending on multiple factors. Please review the details carefully.

INTERNATIONAL MASTER AWARD OF EXCELLENCE (IMAE)

$2,500 / term for max. 5 terms

The IMAE will be awarded to a small number of selected international research master's students who meet the eligibility criteria. The Faculty will nominate eligible students based on the Faculty's award allocation. Students will be selected based on academic excellence as demonstrated through their application for admission to the graduate program.

INTERNATIONAL AGREEMENTS AND SPONSORSHIPS

Find the numerous agreements we have with institutions abroad. If you are applying for graduate studies under one of these formal agreements, please review Waterloo's sponsorship requirements which are an important part of your application process.

BEYOND YOUR ACADEMIC PROGRAM

ATHLETICS, RECREATION, AND WELLNESS

One thing is certain: we have serious fun here. The student experience at Waterloo Engineering goes far beyond work, lectures and studying. We have an exciting and energetic community of students who love to work hard and play even harder. You can race a dragon boat, join a varsity team or become a leader – whatever your interests, you'll be in good company.

Find academic success and develop your career while maintaining physical and mental well-being. Visit our graduate page for more information about varsity sports, intramurals and other recreational activities on campus.

LEARN MORE

SUPPORT FOR SUCCESS

The University of Waterloo supports you with a large group of services designed to help you to succeed. Explore the multiple workshops, training session's conferences, certificates and experience-driven programs available at UWaterloo that can help you to develop your career path.

FOCUS ON ONE CAREER PATH, OR EXPLORE THEM ALL

We encourage our graduate students to go beyond their program's degree and milestones to explore where their studies can take them.

Whether you pursue a career in academia, industry or want to build your own start-up, Waterloo Engineering has supportive programs to help get you there.

LEARN MORE

WOMEN IN ENGINEERING (WIE)

Women in Engineering (WiE) supports women and non-binary engineering students and alumni, while encouraging the next generation to pursue careers in engineering.

45+ ENTREPRENEURIAL SUPPORT PROGRAMS AT WATERLOO

accelerator centre®

VELOCITY

GreenHouse purpose • action • impact

40+ PROGRAMS, PITCH CONTESTS, PROBLEM LABS, MICRO FUNDING and more

CLUBS AND ASSOCIATIONS

65,000 SQUARE FOOT FIELD HOUSE with recreation facilities

2,500+ FITNESS CLASSES each year and

32 VARSITY TEAMS

100+ STUDENT SUPPORT and wellness programs

BUILD YOUR FUTURE IN WATERLOO REGION

Kitchener/Waterloo is among the top 20 start-up ecosystems in the world. We are home to some of Canada's largest tech companies, global think tanks, and innovation hubs, with brands like Google, SAP, Oracle NetSuite, Shopify and many others making the move to Kitchener/Waterloo. Our city has an entrepreneurial spirit that continues to propel us in the creation and development of new ideas.

Short commutes, rustic forest hikes, beautiful sandy beaches, festivals, professional sports, world-class dining and incredible education are all part of life in Waterloo. Rest assured, the Waterloo community has an incredible quality of life.

WATERLOO EDC, 2023

HOUSING IN WATERLOO

20%+ VISIBLE MINORITY population

FASTEST MILLENNIAL POPULATION | NEW GRAD POPULATION growth in North America (CBRE)

1,570+ TECH COMPANIES located in Waterloo Region

EASY ACCESS to Toronto, Hamilton, and London

600,000 PEOPLE and growing

5.5% GROWTH RATE (higher than the Canadian average)

INFO SOURCE: WATERLOO EDC, 2023

50%+ WATERLOO RESIDENTS have a college/ university qualification

OUR CAMPUS

WATERLOO CAMPUS

The main University of Waterloo campus is located in the city of Waterloo, Ontario. Approximately 1 ½ hours (by car) outside of Toronto. This is home to most of our Engineering programs and facilities including state-of-the-art research and teaching labs, media labs, collaborative spaces and great coffee!

EXPLORE THE UNIVERSITY OF WATERLOO CAMPUS

SCHOOL OF ARCHITECTURE

Located in Cambridge, Ontario. Approximately 40 min. (by car) from Waterloo.

Also, the University of Waterloo, School of Architecture is the only Canadian school of architecture to have a permanent international facility in Rome, Italy.

uwaterloo.ca/architecture/academic-programs/rome

OTHER CAMPUSES:

- Health Sciences Campus in Kitchener, Ontario. Includes the School of Pharmacy and the McMaster/ Waterloo DeGroote School of Medicine.
- School of Interaction Design and Business in Stratford, Ontario. Offers our Global Business and Digital Arts program

ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

The University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg, and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching and community building, and is co-ordinated within the Office of Indigenous Relations.

YOU+WATERLOO

Our greatest impact happens together.

CONTACT US

UNIVERSITY OF WATERLOO

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uwaterloo.ca/engineering/graduate-students