

University of Toronto Engineering Graduate Studies

MASc / PhD

Master of Applied Science

Doctor of Philosophy



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

“In taking courses and conducting research, U of T’s MASc program has strengthened my understanding of key engineering fundamentals. It has allowed me to learn not only about my area of research, but also about the innovative research that is being conducted throughout my department.”

Krista Singh, MASc Student

“I chose to do my grad studies at U of T Engineering because it was a great fit. I get to participate in fulfilling research in the area of sustainable energy, my supervisor is insightful and enthusiastic, my lab group is sociable and supportive, and I have access to top quality research equipment.”

Jeffrey Castrucci, PhD Student

Graduate Studies: developing thinkers, innovators, problem solvers

Whether we’re exploring alternative energy sources, improving access to clean water or tackling global healthcare issues, engineers have a crucial role to play. The future depends on our ability to innovate creative solutions to complex challenges that reach across disciplinary boundaries.

Pursuing a graduate engineering degree at the University of Toronto means you’ll learn creative ways of thinking and problem solving. Our outstanding research reputation and leading-edge labs offer unmatched opportunities for our graduate students. In academia and industry, our MASc and PhD graduates thrive—as thinkers, innovators and problem solvers.

Reasons to choose U of T Engineering

Be part of Canada’s premier engineering school

U of T Engineering earns the country’s top spot each year in every major international ranking and competes with the best schools in the world. You’ll be working and learning alongside the finest researchers, industry experts and students.

Work with and learn from some of the best in your field

U of T is home to some of the finest researchers, entrepreneurs and industry experts anywhere. Our faculty earn more than 20 per cent of major awards given to Canadian engineering professors.

Tackle the world’s most important issues

From human health to global energy and sustainable technology, our researchers are creating solutions to critical problems. At hubs like the Centre for Global Engineering and the Institute for Sustainable Energy, a collaborative environment fosters remarkable innovation and boundless possibility.

Build your network while you hone your professional and leadership skills

U of T Engineering offers you the chance to study and work among world-renowned experts in downtown Toronto, one of North America’s great cities. Our graduate programs reflect the diversity around us. You’ll have the opportunity to collaborate with peers and professors from different backgrounds and perspectives—an important experience to have as you build your career in a marketplace where companies are looking to expand, recruit and compete globally. Boost your career potential with programs designed to enhance your professional and leadership skills.

Program Details

As a student in one of our research-stream programs, you'll work one-on-one with a leading researcher in your field. U of T's unparalleled reputation and commitment to innovation ensure you'll have the opportunity to pursue your passion, developing innovative solutions to the world's most pressing problems.

MASc

Master of Applied Science

In this full-time, two-year program, you'll complete a thesis supervised by a professor. A stepping stone to a doctoral degree, the MASc is ideal if you aspire to a rewarding career in research, whether in academia or industry. Exceptional students can fast-track to the PhD program before completing their MASc.

PhD

Doctor of Philosophy

Working with world-renowned researchers, you'll gain incredible depth and experience in your chosen field while you gain the knowledge and competencies needed for a career in a leadership role. The keystone of the doctoral program is a thesis of original work, supervised by a professor.

If you're employed full-time and have a master's degree in engineering, you can take your career to the next level with our flex-time PhD, offered by several departments. Designed for highly motivated engineers in R&D roles, this specialty degree enables knowledge transfer between industry and academia, and is a three-way partnership among the student, employer and supervising professor.

Funding

MASc and PhD students are eligible for funding packages in the form of fellowships and research and teaching assistantships. You'll receive a minimum of \$15,000 plus tuition and fees, and you can increase your funding by applying for additional awards, such as from the Natural Sciences and Engineering Research Council (NSERC) of Canada, the Canadian Institute of Health Research (CIHR), and the Ontario Graduate Scholarships (OGS) program.

Areas of Study

- Aerospace Studies
- Biomaterials & Biomedical Engineering
- Chemical Engineering & Applied Chemistry
- Civil Engineering (including Mineral Engineering and Engineering Geoscience)
- Electrical & Computer Engineering
- Materials Science & Engineering
- Mechanical & Industrial Engineering

Our Alumni and Students

Dr. Todd Reichert completed his PhD at the University of Toronto Institute for Aerospace Studies, and has since made aviation history as the first in the world to sustain flight with a human-powered helicopter.

Civil Engineering Professor Baher Abdulhai and recent PhD graduate Samah El-Tantawy developed smarter traffic lights using game theory and artificial intelligence to teach lights how to adjust to traffic patterns in real time—reducing delays and travel time.

Electrical & Computer Engineering Professor Stewart Aitchison and PhD student James Dou developed an affordable and efficient lab-on-a-chip that can revolutionize HIV monitoring in developing countries. Their patented innovation costs \$5,000 to \$10,000 and provides results in just 15 minutes.

HOW TO APPLY

- Visit www.gradstudies.engineering.utoronto.ca for more information on the MASc and PhD programs.
- Visit the website of the department that you're interested in to learn about admission and English proficiency requirements, and how to apply.
- Hear what our students and faculty have to say Learn more at www.youtube.com/uofteng/playlists and visit our grad studies playlist.

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