

# DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING

U of T is the top-ranked school in Canada for materials science. Learn from our world-renowned researchers to earn one of the most competitive graduate degrees in the field.

As a discipline that enables all technologies, Materials Science & Engineering at the University of Toronto is at the forefront of addressing global issues that have a direct impact on our lives today. Our cutting-edge research in advanced materials provides graduates with the tools to create technological solutions for a wide range of applications including energy storage, renewable energy, biomaterials, automotive and aerospace. With a foundation in the fundamentals of materials behaviour, hands-on experience with state-of-the-art characterization techniques and computer simulations, you'll be ready to tackle the biggest challenges of tomorrow.

As a world leader in new materials applications and processing, our commitment to excellence fosters innovative thinking in our students, leading to the development of brilliant minds who make a global impact.

**We offer the following graduate degrees in our department:**

**Master of Engineering (MEng)**

**Master of Applied Science (MAsc)**

**Doctor of Philosophy (PhD)**

**FOR FURTHER INFORMATION, CONTACT:**

**MSE Graduate Studies Office**

416-978-1374

[mse.grad@utoronto.ca](mailto:mse.grad@utoronto.ca)

[www.mse.utoronto.ca](http://www.mse.utoronto.ca)

184 College Street, Room 140

Toronto, Ontario, M5S 3E4 Canada



Materials Science & Engineering  
UNIVERSITY OF TORONTO



## DEPARTMENT AT A GLANCE

- » U of T is ranked the top school in Canada for materials science by the Academic Ranking of World Universities 2018 and National Taiwan University Ranking 2018
- » Nearly 100 graduate students from across Canada and around the world
- » Eleven electron microscopy and surface characterization instruments in the Ontario Centre for the Characterization of Advanced Materials (OCCAM)
- » Five analytical instruments in the Walter Curlook Materials Characterization & Processing Laboratory
- » A dedicated space for graduate students to prepare optical and electron microscopy samples in the new, fully-equipped Metallographic Laboratory
- » 21 faculty members conducting state-of-the-art research, including Professor Naomi Matsuura's **Medical Imaging Materials Laboratory** (pictured above), which specializes in designing new materials that interact specifically with imaging radiation

## RESEARCH AREAS

- » Advanced Electronic Materials & Systems
- » Advanced Coating Technologies & Ceramics
- » Biomaterials & Biotechnology
- » Composites, Polymers & Hybrid Materials
- » Computational Materials Engineering
- » Materials Fracture & Failure
- » Multiscale Mechanics & Additive Manufacturing
- » Nanomaterials & Nanotechnology
- » Renewable Energy Devices, Systems and Technology
- » Sustainable Materials Processing & Modelling

## MASTER OF ENGINEERING

This program provides an advanced professional education in materials engineering through coursework and an optional project. In just one year of full-time study, you can obtain a degree respected by employers that differentiates you in a crowded marketplace. Exceptional MEng students may fast-track into the MASc program; please visit our website for details.

**Areas of Emphasis:** Advanced Manufacturing; Advanced Water Technologies; Analytics; Engineering & Globalization; Entrepreneurship, Leadership, Innovation & Technology in Engineering (ELITE); Forensic Engineering; Identity, Privacy and Security; Robotics & Mechatronics; Sustainable Energy.

**Admission Requirements:** A Bachelor of Applied Science (BASc) in Engineering or Bachelor of Engineering (BEng) with a minimum B (73%+) over the final two years of an undergraduate program from an accredited institution.

## MASTER OF APPLIED SCIENCE

The MASc program is oriented toward a career in research. All MASc students carry out a thesis which reports the findings of research conducted by the student. All successfully admitted MASc students will receive annual support of \$16,000 plus tuition and fees for up to two years of study. Exceptional students can fast-track into the PhD program.

**Admission Requirements:** A Bachelor of Applied Science (BASc) in Engineering or Bachelor of Engineering (BEng) with a minimum average of B+ (78%+) over the final two years of an undergraduate program from an accredited institution.

## DOCTOR OF PHILOSOPHY

The PhD program consists of courses and an extensive thesis, which you will complete under the supervision of a faculty member. All successfully admitted PhD students will receive annual support of \$17,500 plus tuition and fees for up to four years of study.

**Admission Requirements:** Successful completion of a research master's degree in engineering, with an overall average of at least B+ (78%+), from an accredited institution. Current MASc students within our department can apply to fast-track into the PhD program before completing the MASc degree requirements.

**English Proficiency Requirements:** There is a minimum English proficiency requirement for all applicants educated outside Canada whose primary language is not English. It is a requirement of admission and should be met before applying for admission. Please visit [www.uoft.me/englishfacility](http://www.uoft.me/englishfacility) to determine whether you are required to take a test and for a list of accepted tests and their minimum required scores.

All tuition amounts include incidental fees.

## MEng

---

**Length of Study:** One year, regular full-time study; or, two years extended full-time study (see MSE website for details). Those studying on a part-time basis must complete all degree requirements within six years.

**Domestic Tuition** (2019–2020, full-time): \$15,020.90

**International Tuition** (2019–2020, full-time): \$61,506.90

**Deadline:** Domestic students should apply by June 1 for a September 2020 start. International students should apply by May 1.

## MASc

---

**Length of Study:** Two years of full-time study

**Domestic Tuition** (2019–2020, full-time): \$7,850.90

**International Tuition** (2019–2020, full-time): \$26,046.90

**Domestic & International Deadline:** Apply by March 1 for a September 2020 start.

**Please Note:** We encourage you to contact potential supervisors prior to applying.

## PhD

---

**Length of Study:** Four years of full-time study

**Domestic Tuition** (2019–2020, full-time): \$7,850.90

**International Tuition** (2019–2020, full-time): \$8,486.90

**Domestic & International Deadline:** Apply by March 1 for a September 2020 start.

**Please Note:** We encourage you to contact potential supervisors prior to applying.