

# DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING

U of T is the #1 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 sustainability challenges such as climate change, resource depletion and energy availability.

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)

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Toronto, Ontario, M5S 3E4 Canada



Materials Science & Engineering  
**UNIVERSITY OF TORONTO**



## DEPARTMENT AT A GLANCE

- » U of T is ranked #1 in Canada and top 20 in North America for materials science by QS World University Rankings
- » More than 100 graduate students from across Canada and around the world
- » Received \$3.2 million in research operating funding in 2015
- » Eleven new electron microscopy and surface characterization instruments in the recently established Ontario Centre for the Characterization of Advanced Materials (OCCAM)
- » Five new analytical instruments in the recently completed Walter Curlook Materials Characterization & Processing Laboratory
- » Professor **Keryn Lian**'s Flexible Energy & Electronics Laboratory develops next-generation materials for high-performance, cost-effective, and flexible solid-state electrochemical supercapacitors to address global energy storage needs (pictured above)

## RESEARCH AREAS

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

## MASTER OF ENGINEERING

This program provides you with advanced professional training 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.

**Certificates & Emphases:** Entrepreneurship, Leadership, Innovation & Technology in Engineering (ELITE); Advanced Manufacturing; Advanced Water Technologies & Process Design; Engineering & Globalization; 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 \$17,000 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, 2 years extended full-time study (see MSE website for details). Those studying on a part-time basis must complete all degree requirements within 6 years.

**Domestic Tuition** (2016-2017, full-time): \$14,962

**International Tuition** (2016-2017, full-time): \$49,094

**Domestic & International Deadline:** Apply by June 1 for a September 2017 start.

## MASc

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

**Domestic Tuition** (2016-2017, full-time): \$8,492

**International Tuition** (2016-2017, full-time): \$22,604

**Domestic & International Deadline:** Apply by March 1 for a September 2017 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** (2016-2017, full-time): \$8,492

**International Tuition** (2016-2017, full-time): \$22,604

**Domestic & International Deadline:** Apply by March 1 for a September 2017 start.

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