

# DEPARTMENT OF MATERIALS SCIENCE & ENGINEERING

The Department of Materials Science & Engineering at U of T is one of the largest academic units of its discipline in North America. We are leaders in next-generation materials research and education.

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 creates technological solutions for environmental challenges such as climate change, resource depletion and energy availability.

As a world leader in new materials applications and processing, our commitment to research and teaching excellence fosters innovative thinking, leading to the development of sustainable technologies that make a global impact.

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

Master of Engineering (MEng)

Master of Applied Science (MASc)

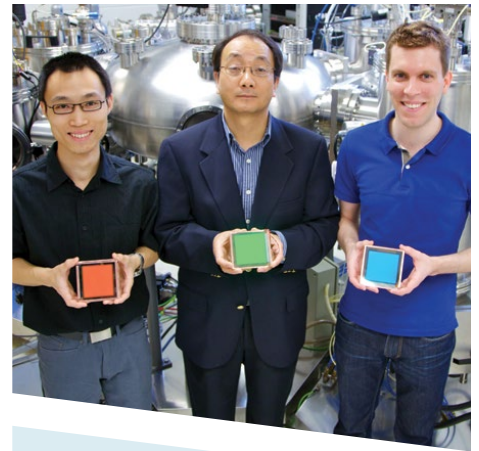
Doctor of Philosophy (PhD)

## RESEARCH AREAS

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



Materials Science & Engineering  
UNIVERSITY OF TORONTO



### DEPARTMENT AT A GLANCE

- » More than 90 graduate students from across Canada and around the world
- » Received more than \$2.8 million in research funding in 2013
- » \$16M Ontario Centre for the Characterization of Advanced Materials (OCCAM) to be complete by 2015
- » \$1M Walter Curlook Materials Characterization & Processing Laboratory established in 2013
- » Recent PhD graduate and Governor General's Gold Medal recipient Dr. Michael Helander developed the world's most efficient flexible organic light-emitting diode (OLED) during his doctoral studies (*pictured above*)
- » Celebrated centennial year in 2013

### 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

## MASTER OF ENGINEERING

This program provides you with advanced professional training in materials engineering. 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:** Advanced Water Technologies & Process Design; Engineering & Globalization; Entrepreneurship, Leadership, Innovation & Technology in Engineering (ELITE); Robotics & Mechatronics.

**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. MAsc students are guaranteed funding for two years. 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. PhD students are guaranteed funding for four years.

**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.

## MEng

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**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.

**Examples of Courses:** Advanced Physical Properties of Structural Nanomaterials; Interface & Nanophase Engineering; Forensic Materials Engineering

**Domestic Tuition** (2014–2015, full-time): \$12,250\*

**International Tuition** (2014–2015, full-time): \$39,580\*

**Domestic & International Deadline:** Apply by June 1 for a September 2015 start.

## MAsc

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

**Domestic Tuition** (2014–2015, full-time): \$7,115\*

**International Tuition** (2014–2015, full-time): \$18,620\*

**Domestic & International Deadline:** Apply by March 1 for a September 2015 start.

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

## PhD

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

**Domestic Tuition** (2014–2015, full-time): \$7,115\*

**International Tuition** (2014–2015, full-time): \$18,620\*

**Domestic & International Deadline:** Apply by March 1 for a September 2015 start.

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

*\*Additional ancillary fees will also be applied (approximately \$1,300)*

**English Facility Requirements:** There is a minimum English facility 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.gradstudies.engineering.utoronto.ca/EPT](http://www.gradstudies.engineering.utoronto.ca/EPT) to determine whether you are required to take a test and for a list of accepted tests and their minimum required scores.