



# ENGINEERING GRADUATE STUDIES

**MEng**

Master of Engineering



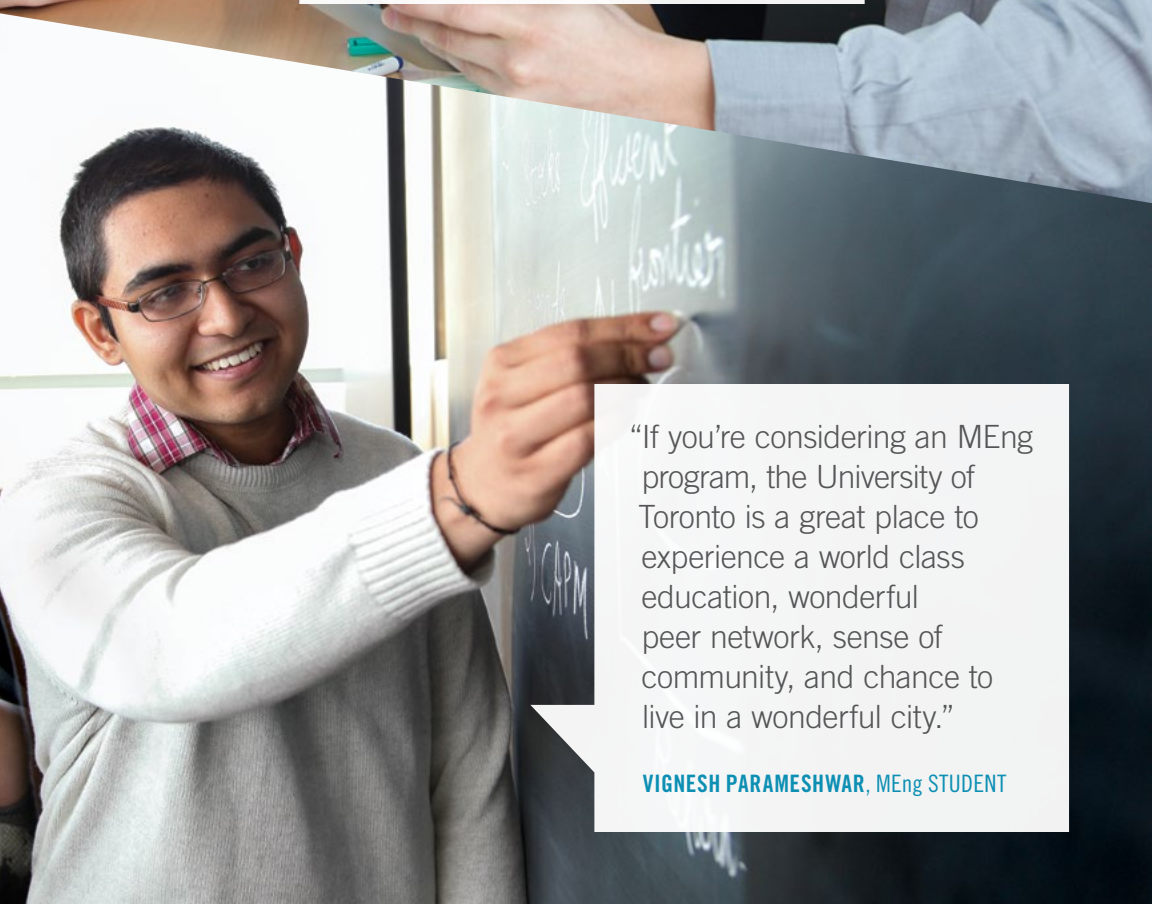
UNIVERSITY OF  
TORONTO

**Engineering**



“Being in the MEng program helps me to stand out from the crowd and from my colleagues. Not only did I learn additional technical skills but I also learned a lot about management and leadership—which is one of the reasons why I chose the MEng program at U of T.”

**DOM LEE, MEng STUDENT**



“If you’re considering an MEng program, the University of Toronto is a great place to experience a world class education, wonderful peer network, sense of community, and chance to live in a wonderful city.”

**VIGNESH PARAMESHWAR, MEng STUDENT**

# TAKE YOUR ENGINEERING CAREER TO THE NEXT LEVEL

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Tackling the industrial and societal challenges of the 21st century requires specialized technical knowledge. But to get ahead in today's workplace, engineers also have to communicate, manage, innovate and understand the world. Coming up with creative solutions to pressing global problems requires broader competencies than ever before.

An MEng from the University of Toronto can give you that edge. You'll take advanced technical courses, and be able to choose from a variety of specializations that take you well beyond what you learned as an undergraduate. And we also offer a professional development curriculum you won't get from any other school. We provide a depth and breadth of education that can help you achieve your potential and move your career to the next level.





# REASONS TO CHOOSE U OF T ENGINEERING

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## 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.

## WORK WITH AND LEARN FROM SOME OF THE BEST IN YOUR FIELD

U of T is home to some of the finest engineers, entrepreneurs and industry experts anywhere. You'll be learning from the best professors. Our faculty earn more than 20 per cent of major awards given to Canadian engineering professors.

## BUILD YOUR NETWORK WHILE YOU HONE YOUR LEADERSHIP SKILLS

Our location in downtown Toronto positions you well to meet a wide and diverse network of engineering professionals. We'll help build your understanding of the human challenges that mean the difference between success and failure in the worlds of manufacturing, healthcare, energy, IT, infrastructure and more.





# PROGRAM DETAILS

## MEng MASTER OF ENGINEERING

The MEng is designed for engineers who want to enhance their career opportunities. The MEng program can be completed in as little as one year of full-time study, or if you're working, you can pursue the MEng on a part-time basis over two or more years. Some courses are offered evenings, weekends and online.

The curriculum requires that you take at least six technical courses to develop a specialization, but you can trade out a few for a research project with a professor. The program can also broaden professional competencies. Complement your technical knowledge with up to four professional development courses on leadership, finance, entrepreneurship and innovation, which will round out your skill set and put you ahead of the competition.

### Pursue your MEng through one of six departments:

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

### Depending on your department, you can customize your degree by choosing a technical specialization, such as:

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- » Advanced Water Technologies & Process Design
- » Energy Studies
- » Financial Engineering
- » Healthcare Engineering
- » Information Engineering
- » Robotics and Mechatronics
- » Sustainable Aviation



## **ENTREPRENEURSHIP, LEADERSHIP, INNOVATION AND TECHNOLOGY IN ENGINEERING (ELITE) CERTIFICATE**

The first of its kind in Canada, the ELITE certificate offers MEng students the opportunity to develop competencies most engineers only appreciate once they've joined the workforce. Students can choose up to four courses on topics such as leadership, finance and management, and entrepreneurship and innovation, deepening their understanding of the business world and the impact of engineering on society.

## **GLOBAL ENGINEERING CERTIFICATE**

In an increasingly globalized work environment, engineers need an understanding of the specific challenges faced by the developing world. This four course certificate is offered by the Centre for Global Engineering (CGEN), founded to tackle issues in areas such as water and sanitation, shelter, energy and nutrition.

## **MEng IN CITIES ENGINEERING AND MANAGEMENT (CEM)**

A graduate program offered by the Department of Civil Engineering, CEM offers an in-depth look at the fascinating world of cities, now home to more than 50 per cent of the world's population. Courses explore how cities can be understood as complex systems, equipping students with the skills to understand how infrastructure affects economic prosperity and quality of life.



**HEAR WHAT OUR  
STUDENTS AND FACULTY  
HAVE TO SAY**

Learn more at  
[www.youtube.com/uofteng/playlists](http://www.youtube.com/uofteng/playlists)  
and visit our grad studies  
playlist.



# ELITE INSTRUCTORS

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Our ELITE instructors are professors and industry professionals who are ready and eager to share their experience with you. Meet a few of our exceptional instructors.

**ALEXANDER HAY** is an instructor in the MEng program and at the Centre for Resilience of Critical Infrastructure at U of T. He teaches infrastructure, resilience and protection planning, and how to transform research into operational risk management plans and develop resilient communities. Hay has specialized in fortifications and infrastructure development over a 25-year government career. He has worked across the globe in austere, hazardous and developed environments for national and international agencies. Outside of U of T, he consults internationally on operational risk, resilience and security planning and design.

**STEPHEN ARMSTRONG** has achieved 25 years of success leading and driving large-scale business turnaround initiatives, initially in the aerospace and defense industry and then branching out to other sectors. He has worked for Bombardier Aerospace–Belfast and KPMG. In 1993, he founded AMGImanagement.com. In 2009, he started teaching in our MEng program and was appointed Professor of Innovation in 2014. Today, Armstrong teaches one undergraduate and four master's courses in the areas of innovation and management.

**EDUARDO FERNANDEZ** is an instructor in the MEng program at the University of Toronto. He teaches courses in international business for engineers, and engineering economics and decision making. Fernandez is an international engineering consultant on project and equipment financing, corporate restructuring, development bank financing, oil and gas, hospitality, and business and management for diverse industries with cross-border operations. Fernandez adds more than 20 years of global engineering management experience to the MEng program.





# HOW TO APPLY

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- » Visit [www.gradstudies.engineering.utoronto.ca/meng](http://www.gradstudies.engineering.utoronto.ca/meng) for more information on the MEng program.
- » Visit the website of the department that you're interested in to learn about admission and English proficiency requirements, and how to apply.



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## Engineering

[www.gradstudies.engineering.utoronto.ca](http://www.gradstudies.engineering.utoronto.ca)

 [www.youtube.com/uofteng/playlists](https://www.youtube.com/uofteng/playlists)