MEng Orientation
Fall 2023

September 6, 2023
Land Acknowledgement

We wish to acknowledge this land on which the University of Toronto operates. For thousands of years it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.
Agenda

• Welcome – Professor Markus Bussmann
• Welcome to the MEng program – Professor Kamran Behdinan, Professor Janet Lam
• MIE Graduate programs & supports
• MIE Community
• MEng program details & requirements – Professor Kamran Behdinan (MEng projects), Sandra Borges
• Tips for MEng success & OPTIONS presentation
• Q&A
• Networking
Professor Markus Bussmann
Department Chair

Professor Tobin Filleter
Associate Chair of Graduate Studies
Professor Kamran Behdinan  
Academic Director - Professional Program & MEng Academic Advisor, Mechanical Engineering

Professor Janet Lam  
MEng Academic Advisor, Industrial Engineering
The Department of Mechanical & Industrial Engineering offers three graduate programs:

- Professional Master of Engineering (MEng) program
- Research-based Master of Applied Science (MASc)
- Doctor of Philosophy (PhD) programs
Levels of University Support

• **Engineering departments** supports their graduate students with specifics in their academic program.

• **Faculty of Applied Science and Engineering, Graduate Studies (FASE)** supports students with professional development programs and events, oversees Faculty-Wide engineering courses.

• **School of Graduate Studies (SGS)** supports all graduate students with a variety of services and resources (policies, awards, financial aid, career development, academic writing/speaking and more).
MIE Graduate Office

- People
- Services
- Graduate Office Resources & Referrals
- School of Graduate Studies vs MIE Graduate Office
Sandra Borges, Admissions, MEng/MASc/PhD Graduate Program Advisor (acting)
- PhD/MASc student support
- Funding related questions
- Academic advising
- Processes graduation requirements for all Graduate Programs

Neha Mumtaz, Graduate Program Assistant (MEng)
- Graduate student support
Graduate Office Services

Academic Advice

Course enrollment & course selection support

Graduation & degree checks

Funding information

Program Requirements & timeline
School of Graduate Studies (SGS) vs MIE Graduate Office

The SGS supports graduate students across the University. Please refer to the SGS website for:

- University-wide policies and guidelines:
  - SGS Code of Behaviour on Academic Matters, plagiarism, offenses, appeals
  - Code of Student Conduct, harassment, violence
- Important dates and deadlines (i.e. sessional dates)
Our Faculty

• Over 60 dedicated faculty members
• Experts in their fields
• Leaders in ground-breaking research
MIE Faculty in the News

Professor Goldie Nejat
Global News: “Conversations with Alexa: How robots are helping Canada’s aging population connect”

Professor Tim Chan
CTV News: “Around the clock: Experts weigh in on speeding up Canada’s vaccination rollout”
The Association of Mechanical and Industrial Engineering Graduate Students (AMIGAS)

- AMIGAS is the graduate student association in the Department of Mechanical and Industrial Engineering.
- AMIGAS hosts social, athletic, academic, and professional development events open to all MIE graduate students.
- Website: amigas.mie.utoronto.ca
- Instagram: @amigas_mie_uoft
Our Alumni

Graduates of our MEng program go into careers such as:

• Project Engineer (Bruce Power)
• Associate Category Business Manager (Canadian Tire Corporation)
• Mechanical Designer (GE Aviation)
• Equity sales (Scotiabank)
• Software Engineer (Sorting Hat Analytics)
• Strategic Sourcing and Network Planning (Apple Inc)
• Research Fellow (The Hong Kong Polytechnic University)
Ewura-Abena Bourne
MechE MEng (2017)
Junior Mechanical Designer and Robotics Simulator at Systematix Inc

Si Hsu
IndE MEng (2018)
Vice President at Citi
MEng Program Breakdown

- Regulations
- Faculty-Wide Emphases
- Certificates
- Projects
Regulations – Course-based

10 courses (500 & 1000 Level):

- 6 must be either offered by MIE or from a list of approved courses (found on the MIE website)
- up to 4 APS/ELITE, CS, RSM (Rotman)
- no limit on the number of 500-level courses
- only one reading course

- Any other courses? Consult the Graduate Office
Faculty-Wide Emphases

You can customize your program with a technical emphasis which will appear on your transcript (if all requirements are met). Options include:

- Advanced Manufacturing
- Advanced Soft Materials
- Advanced Water Technologies
- Aerial Robotics
- Analytics
- Biomanufacturing
- Engineering & Globalization
- Entrepreneurship, Leadership, Innovation & Technology in Engineering (ELITE)
- Forensic Engineering
- Identity, Privacy & Security
- Robotics
- Sustainable Aviation
- Sustainable Energy
- Waterpower
Regulations – Project-based

7 courses (500 & 1000 Level) + MEng project:
- at least 4 from MIE
- completion of a MEng project

Any other courses? Consult the Graduate Office
Certificates

- **Financial Engineering**
  - Prof. Roy Kwon, kwon@mie.utoronto.ca
  - Prof. Chi-Guhn Lee, cglee@mie.utoronto.ca

- **Healthcare Engineering**
  - Prof. Michael Carter, carter@mie.utoronto.ca

- **Information Engineering**
  - Prof. Mark Fox, msf@mie.utoronto.ca

- **Computational Mechanics in Design**
  - Prof. Shaker Meguid, meguid@mie.utoronto.ca
MEng Projects

- Equivalent to 1.5 FCE.
- Type of project depends on your supervisor – research-based vs. applied.
- Project supervisors are from MIE, however it is possible to take on projects elsewhere in FASE or even outside of Engineering (with permission).
- Projects can last up to 3 consecutive terms. The most common duration is 2 terms.
- You may start your project in any term.
- Connect with the Graduate Office to add a project.
- Also available are paid and unpaid projects through:
  - Multidisciplinary MEng projects (http://imdi.mie.utoronto.ca/)
  - IMDI internships (not for credit) (http://imdi.mie.utoronto.ca/)
How to Succeed & Resources

- Quick Tips
- Advice on Drop Deadlines & Waitlists
- Graduate Student Supports (Faculty & University-wide)
Quick Tips

- Graduate school is what you make it – establish your goals.
- Take initiative, be aware of deadlines and ask for clarification when needed.
- Leverage the U of T alumni network - join Engineering CONNECT.
- Attend networking sessions and make relationships outside the laboratory/classroom.
- Prioritize a work-life balance.
- Stay physically and mentally well. Seek out support if you need it.
Advice on Drop Deadlines & Waitlists

• The drop deadline is firm - don’t try to drop a course after the deadline.

• If you are on a waitlist:
  • Consider letting the course instructor know of your interest.
  • Remain on the waiting list – students could drop the course within the first week or two of class.
  • Popular courses like MIE1624, MIE1622 & MIE1628 have large waitlists and course instructors cannot request that you get a spot.
Engineering Faculty Supports:

Engineering Grad Career Development

ILead and ILead:Grad | Leadership development programming and events

Graduate Peer and Career Support (Grad PACS) | Engineering grad students guides for advice

Hatchery, H2i, OnRamp | Entrepreneurship programs

U of T Engineering CONNECT | Web platform to network with U of T Engineering Alumni

Alumni Mentorship Program
University-wide Supports:

Centre for International Experience (resource centre for International Students, study permits, travelling abroad etc)

Graduate Centre for Academic Communication (GCAC) (training in academic writing and speaking)

UofT Career Learning Network (workshops, networking events, job postings, career fairs etc.)

SGS Resources & Supports (academic workshops, guides for degree success, book meeting rooms)
University-wide Supports:

NEW: Myhal MEng Lounge

- MEng students have a dedicated space (MY660) on the sixth floor of the Myhal Centre for Engineering Innovation and Entrepreneurship.
- Myhal MEng Lounge Code: 3456
Welcome!

University of Toronto Engineering
GECOS: Your Engineering Graduate Student Club

The Graduate Engineering Council of Students
AMIGAS: Your MIE Graduate Student Group

Association of Mechanical and Industrial Graduate Students
Fall Activities

Picnics, Wonderland, Welcome Pub Event, Snakes & Latte, Coffee Break Events, Distillery District etc. in Fall 2021-22.

Welcome Back BBQ

Toronto Island Picnic

Board Games Event

Escape Room Event

Wonderland Event
Winter Activities

Intercontinental Cooking Class, Persian New Year, Chinese New Year, Musical Event etc. in Winter 2021.
Summer Activities

Cherry Blossoms, Niagara Falls, Canada’s wonderland, Trillium Park Picnic, Trampoline Park Event, etc. in Summer
The social events do not end here..

Welcome BBQ EVENT

Wednesday, Sep. 13th starting at 12 pm
Academic and Professional Development Activities

Student seminar series and mentorship program

Professional development events: Networking, Alumni Event and Job Search events

Networking with LinkedIn!

Job search & Networking with LinkedIn Event

Join us on Zoom
Nov 12, 2021 | 6 PM
Speaker: Mujtaba Ali Khan

MIE Student Seminar Series
September 24th, 3 - 4 p.m.

Presenters
Nitin Sarker: Improved Operability of Photovoltaic-powered Reverse Osmosis for Remote, Off-grid Communities
Maliah R. Imanii: Toronto Western Hospital Non-Emergent Spine Care QBP Planning System & Operationalizing Dynamic Response To Funded Surgery Volumes

After hearing the talks, please fill out the feedback form [link in the chat box - https://forms.gle/8RUjcmiWvWyBHR9oi5], as a thank you, you will receive a gift card from the AMIGAS!

Interested in presenting at the next MIE student seminar series? Contact us at: amigas@mie.utoronto.ca
Interested in joining AMIGAS as an executive???

- The fall elections process started last week.

  Applications are due by September 22\textsuperscript{nd} at 23:59 pm EST.

- Conditions for becoming an exec:
  - Be a full time or part time Gard student at MIE for this academic year (2023-2024).
Stay In Touch

The best way to stay in touch is to follow our Instagram Page and our Weekly Newsletters.

Make sure to add our email amigas@mie.utoronto.ca to your trusted contact!
Graduate Programming
Navigate Your Degree With Grad Maps

- Develop your professional skills
- Connect with your peers and mentors
- Build your professional network
- Launch your career plan
Welcome to Graduate School!

Friday September 15, 2023
11:00 am - 2:00 pm

uoft.me/FASEcurrentstudents
Building a Better Relationship with Your Writing

Wednesday, September 27
12:00 – 1:30 pm
GB202

https://forms.office.com/r/Be1kAyv4ig
I HAVE A GRADUATE DEGREE — NOW WHAT?

The OPTIONS Program is here to help you explore diverse career pathways

Visit uoft.me/optionsprogram to learn about the 9-week cohort program and complementary events.
Cohort Program

- Create a career exploration plan
- Communicate your experiences in a resume, cover letter, and interview
- Use informational interviews and networking tools to clarify career aspirations

Fall 2023 | Applications Due: September 25
MASc Cohort
PhD and PDF Cohort

Winter 2024 | Applications Open: Mid-December
MEng Cohort
Complementary Events
Learn more

uoft.me/FASEcurrentstudents

Questions? Contact
grad.experience@engineering.utoronto.ca
Become the engineering leader the future needs.
Courses, workshops, programs, and more!

Visit uoft.me/ileadstudents to learn more and sign up for our newsletter!
Questions?