**Why GRADUATE STUDIES in ELECTRICAL & COMPUTER ENGINEERING?**

As a MEng student in the important field of Electrical and Computer Engineering (ECE), you can play a vital role in future developments in such areas as microchip design, bioelectronics, machine intelligence, autonomous vehicles & robots, next-generation Internet, fibre optics, communications & wireless networks, network security, power engineering, green energy, and thousands of other areas. Almost every aspect of modern life is impacted by electrical and computer engineering.

The MEng program is a course work based professional program that suits students who are interested in acquiring advanced engineering knowledge and skills to enhance employment opportunities as a technical specialist in industry. Through an industry internship option, the program offers the student an opportunity to connect knowledge with current industry practice.

**Why QUEEN’S?**

As a MEng student in ECE at Queen’s you are part of one of the most research intensive universities in Canada. Our research program is internationally renowned with a wide range of research activities in all of the major specialization areas of electrical and computer engineering.

Queen’s ECE offers a number of cross-disciplinary opportunities in collaboration with the departments of Mathematics & Statistics, Physics, Computing, Mechanical Engineering, Mining, the School of Kinesiology and Health Studies, as well as a collaborative graduate program in Computational Science and Engineering.

Our students come from all over the world. At Queen’s, graduate students from all disciplines learn and discover in a close-knit intellectual community.

**Program STRUCTURE**

- **MEng (1 year):** Complete 8 term length courses pre-approved by the department, and seminars.

- **MEng with Industry/Internship option (3 semesters):** Complete a semester-long paid internship.

- **MEng with Academic Project option (3 semesters):** Complete a semester-long project supervised by faculty in Department.

**STUDY Areas**

- Communications and Signal Processing
- Computer and Software Engineering
- Microelectronics, Electromagnetics and Photonics
- Power Electronics
- Biomedical and Intelligent Systems

Visit the Electrical and Computer Engineering website to read about program options.

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Electrical & Computer Engineering  
**MEng Map**

**Applying to and Navigating Graduate Studies**

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School of Graduate Studies  
Create an impact  
www.queensu.ca/sgs
Master of Engineering (MEng) in Electrical & Computer Engineering

**Achieve Your Academic Goals**
- Start with key priorities like completing your coursework.
- Attend the Departmental Speaker Series (ELEC 891).

**Maximize Learning Impact**
- Participate in innovation activities, such as the Queen’s Innovation Connector.
- Attend an “Engineering Internship and Other Program Options” information session to learn about the program options.

**Build Skills and Experience**
- Serve on departmental, faculty or university committees. Talk to the Graduate Electrical & Computer Engineering (GECE) student society to stay on top of upcoming events.
- See professional development workshops from Expanding Horizons.
- Participate in workshops through the MEng Industrial Internship Program to gain job search skills and knowledge of the Canadian context.

**Engage with Your Community**
- Explore how you can connect with your community through experiential opportunities on- and off-campus.
- Consider volunteering with different community organizations, such as the Engineering Society Design Teams.

**Launch Your Career**
- Finding a career that fits starts with knowing yourself. Get help by taking a Career Services career planning workshop or meeting with a career counsellor. Check out books like “What Are You Going to Do With That?” for advice on various career options.
- Tune into IEEE messages and publications targeting student members.
- Explore different careers of interest by reading alumni profiles on the SGS website, and using Queen’sConnects on LinkedIn to connect with Queen’s alumni, or find alumni in various careers through “Ask an Alum.”
- Check out the free online modules at MyGradSkills to help you plan your career.

**Getting Started**

- Complete your coursework.
- Complete the Academic Integrity Tutorial.
- Find your way through the academic process with help from departmental and Expanding Horizons professional development workshops, the department Grad Chair and the SGS Habitat.

**Intermediate Stage**

- Attend a graduate conference, such as an IEEE sponsored conference.
- Start keeping an eportfolio of your skills, experiences and competencies.
- Serve on departmental, faculty or university committees. Talk to the Grad Chair and the MEng Internship Coordinator.

**Wrapping Up**

- Attend a major conference in your field, such as an IEEE conference.
- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help from a Career Services workshop.
- Check out opportunities for extra training through CTL, Expanding Horizons, Mitacs, or other sources to boost your skills.
- Investigate internships from Mitacs and other sources.
- Apply the knowledge gained from coursework in the workplace with a MEng Industrial Internship.

**What Will I Learn?**
- A graduate degree in Electrical and Computer Engineering can equip you with valuable and versatile skills, such as:
  - Knowledge and technical skills
  - Effective communication skills in multiple forms for diverse audiences
  - Information management: prioritize, organize and synthesize large amounts of information
  - Time management: Meet deadlines and manage responsibilities despite competing demands
  - Project management: develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions
  - Creativity and innovation
  - Perserverence
  - Independence and experience as a collaborative worker
  - Awareness of an understanding of sound ethical practices, social responsibility, and cultural sensitivity
  - Professionalism in all aspects of work, and interactions
  - Leadership: initiative and vision leading people and discussion

**Where Can I Go?**
- A Master’s degree in Electrical and Computer Engineering can take your career in many directions. Some of our MEng students choose to continue their academic career with an MSc or PhD. Our Master’s students are equipped with a strong foundation for careers in numerous sectors, such as:
  - Tech companies, such as Qualcomm, Ciena, Microsoft, Google, IBM, Cisco Systems, General Dynamics
  - Startups in all sectors, such as wearable devices, intelligent apps
  - Services: such as financial, pension, actuarial, intellectual properties
  - Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation

Visit careers.queensu.ca/gradmaps for the online version with links!

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Application FAQs

What do I need to know to APPLY?

**ACADEMIC REQUIREMENTS**
- Honours Bachelor degree in Engineering (any) or Science (closely related field).
- **Grade requirements**: Minimum cumulative average of 75% or B from Canadian or US Universities, or 80% for international students.

**ADDITIONAL REQUIREMENTS**
- Curriculum Vitae.
- English Proficiency Requirements as listed on the ECE graduate website.

**KEY DATES & DEADLINES**
- Application due: January 31 (international), March 1 (domestic).
- Notification of acceptance: usually before the end of April for international students, end of May for domestic students.

Before you start your application, please review the Graduate studies application process.

What about FUNDING?

M.Eng. student in a course work program do not receive financial support.

Students who receive permission to enroll in our Industrial Internship Option can receive funding as interns (ELEC 895) from the industry partner.