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.

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 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.
GETTING STARTED

- Start with key priorities like completing your coursework.
- Attend the Departmental Speaker Series (ELEC 991).

MAXIMIZE LEARNING IMPACT

- Participate in innovation activities, such as the Queen’s Innovation Connector.
- Attend a graduate conference, such as an IEEE-sponsored conference.
- Consider positions in student services, such as the SGS or media outlets like the Queen’s Journal or Expanding Horizons.
- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews.

BUILD SKILLS AND EXPERIENCE

- Serve on departmental, faculty or university committees. Talk to the Graduate Electrical & Computer Engineering (GECE) student society for tips on getting involved.
- See professional development workshops from Expanding Horizons.
- Participate in innovation activities, as the Queen’s Innovation Connector.
- Consider positions in student services, the SGS, or media outlets like the Queen’s Journal or Expanding Horizons.
- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews.

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 Team.
- Do some targeted networking with people working in careers of interest, through the Queen’s University IEEE Student Branch’s networking dinners, Queen’sConnects on LinkedIn, the Queen’s Alumni Association, professional associations, and at conferences. Get help from a Career Services workshop.
- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups.
- Prepare for work or studies in a multi-cultural environment by taking the QUIC and Four Directions Aboriginal Student Centre’s Training Certificate.
- If you are an international student interested in staying in Canada, consider speaking with an International Student Advisor.

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 So What Are You Going to Do With That? for advice on various career options.
- Tune into IEEE messages and publications targeting student members and career building. Learn about the jobs and careers of other ECE grads.
- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups.
- 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."
Graduate Studies FAQs

How do I use this map?

Whether you are considering or have embarked on graduate studies at Queen’s, use this map to plan for success in five overlapping areas of your career and academic life. The map helps you explore possibilities, set goals and track your individual accomplishments. Everyone’s journey is different – the guide offers options for finding your way at Queen’s and setting the foundation for your future. To make your own customized map, use the online My Grad Map tool.

Where can I get help?

Queen’s provides you with a broad range of support services from your first point of contact with the university through to graduation. Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming environment offers the programs and services you need to be successful, both academically and personally. Check out the SGS HABITAT for available resources.

What is the community like?

At Queen’s, graduate students from all disciplines learn and discover in a close-knit intellectual community. You will find friends, peers and support among the graduate students enrolled in Queen’s more than 130 graduate programs within 50+ departments & research centres. With the world’s best scholars, prize winning professional development opportunities, and life in the affordable, historic waterfront city of Kingston, Queen’s offers a wonderful environment for graduate studies. Queen’s is an integral part of the Kingston community, with the campus nestled in the core of the city, only a 10-minute walk to downtown with its shopping, dining and waterfront. For more about Kingston’s history and culture, see Queen’s University’s Discover Kingston page.

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.

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
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