Why GRADUATE STUDIES in ELECTRICAL & COMPUTER ENGINEERING?

As a MASc 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, artificial intelligence, machine vision, IoT, autonomous vehicle & robots, speech and language processing, wireless and optical communications, nano-electronics, photonics, power electronics and systems, green energy, cybersecurity, supercomputing, software engineering, and thousands of other areas. Almost every aspect of modern life is impacted by electrical and computer engineering.

Graduate students and their work are an important part of an ongoing research process that provides the community with ways of understanding natural, cultural, imaginative, social and technological phenomena. Check out whygradstudies.ca for more reasons to choose graduate studies in engineering.

Why QUEEN’S?

As a MASc 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.

In addition to the general MASc program, Queen’s ECE offers a Master of Applied Science with a Field of Study in Artificial Intelligence, as well as collaborative graduate programs in Biomedical Engineering, and Master’s in Applied Sustainability. It also has a number of cross-disciplinary opportunities in collaboration with the departments of Mathematics & Statistics, Physics & Engineering Physics, Computing, Mechanical Engineering and the School of Kinesiology and Health Studies.

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.

“As a graduate student at Queen’s, you’re part of a small, tightly-knit community and you have the opportunity to connect with the faculty and students in your department in a way that is simply not possible at other universities.”

Program STRUCTURE

MASc (2 years): 4 courses and seminars, plus a research thesis.

RESEARCH Areas

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

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the Electrical and Computer Engineering website to read about research groups and faculty profiles. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work, area of research interest and related experience.
Graduate Studies FAQs

How do I make the most of my time at Queen's?
Use the Grad Map to plan for success in five overlapping areas of your career and academic life. Everyone's journey is different - the ideas on the maps are just suggestions to help you explore possibilities. For more support with your professional development, take advantage of the SGSPA professional development framework and the new Individual Development Plan (IDP) process to set customized goals to help you get career ready when you graduate.

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 SGSPA website 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, excellent funding packages 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
• Bachelor degree in Engineering or closely related field.
• Grade requirements: Minimum cumulative average of 75% or B from Canadian or US Universities, or 80% for international students.

ADDITIONAL REQUIREMENTS
• Statement of Interest/Statement of Research.
• Curriculum Vitae.
• English Proficiency Requirements as listed on the ECE graduate website.

KEY DATES & DEADLINES
• Application due: Fall Semester Start: January 31 (international), March 1 (domestic) Winter Semester Start: August 15th
• 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?
Minimum funding guarantee for MASc students is $23,000 (domestic & international) per year throughout years 1-2. Students are usually funded through a combination of research assistantships, teaching assistantships, and/or scholarships.

Apply for external funding from OGS, NSERC and other sources. Queen's will automatically issue a one time $5,000 top-up to Masters winners of federal government tri-council awards. For more information, see the School of Graduate Studies and Postdoctoral Affairs' information on awards and scholarships.

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