Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
- Bachelor degree in Engineering (any) or Science (closely related field).
- Grade requirements: Minimum cumulative average of 75% or 8 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: 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?

Minimum funding guarantee for MASc students is $22,000 (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’ information on scholarships.

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

Why QUEEN’S?
As a MASc student 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 and the School of Kinesiology and Health Studies, as well as collaborative graduate programs in Biomedical Engineering, Master’s in Applied Sustainability, and 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.

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, machine intelligence, autonomous vehicles & robots, next-generation Internet, fibre optics, communications & wireless networks, network security, power engineering, green energy, 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.

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 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. 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.

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**GETTING STARTED**

- Start with key priorities like developing your relationship with your supervisor and completing your coursework.
- Consider how your course papers can contribute to your MASc thesis research.
- Start your research as soon as possible, aiming to get traction by the end of your first year.
- Attend the Departmental Speaker Series (ELEC 891).

**MAXIMIZE RESEARCH IMPACT**

- Start to think about the audiences for your research.
- Look into applying for NSERC, OGS and other scholarships. Winning them will boost your academic career.
- Participate in innovation activities, such as the Queen's Innovation Connector.

**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.
- Use Research Assistant and Teaching Assistant positions to develop your research or teaching skills.
- See professional development workshops from Expanding Horizons.

**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. Tune into IEEE messages and publications targeting student members and career building. Learn about the jobs and careers of other ECE grads.
- Get help by taking a Career Services workshop or meeting with a career counsellor. Check out books like So What Are You Going to do When That's All Over?
- Start reading publications like University Affairs and the Chronicle of Higher Education. Browse non-academic labour market websites. Stay on the lookout for special events like School of Graduate Studies Career Week to explore your career pathways.

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**INTERMEDIATE STAGE**

- Complete your coursework, continue to do your research and progressively write up your Master's research thesis.
- 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.

**MAXIMIZE RESEARCH IMPACT**

- Submit your research for presentation at a research conference such as an IEEE sponsored conference.
- Consider participating in the 3 Minute Thesis (3MT) competition.
- Expand your research audience through social media such as Twitter or a blog.

**BUILD SKILLS AND EXPERIENCE**

- Start keeping an eportfolio of your skills, experiences and competencies.
- For help with teaching, get support from the Centre for Teaching and Learning. Enroll in SGS902 or the PUTL certificate.
- Consider positions in student services, the SOPS, or media outlets like the Queen's Journal, CFRC and the SGS Blog. Look in the AMS Clubs Directory for more ideas.

**ENGAGE WITH YOUR COMMUNITY**

- 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 Intercultural Awareness Training Certificate hosted by QUCIC and FDIGC.
- If you are an international student interested in staying in Canada, consider speaking with an International Student Advisor.

**LAUNCH YOUR CAREER**

- 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 Alumnus.
- If you are considering a PhD, explore programs of interest reach out to faculty, and apply to PhD programs and external scholarships. Check admission test deadlines if needed for further studies.

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**WRAPPING UP**

- Present your research to ECE graduate students and faculty.
- Complete and defend your Master's research thesis.

**MAXIMIZE RESEARCH IMPACT**

- Consider publication options for your research.
- Attend a major conference in your field, such as an IEEE conference.
- Set up a meeting with the School of Graduate Studies for a Grad Chat to discuss your research interests.
- Consider putting an article in The Conversation.

**BUILD SKILLS AND EXPERIENCE**

- 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.

**ENGAGE WITH YOUR COMMUNITY**

- Do some targeted networking with people working in careers of interest, through QueensConnects on LinkedIn, the Queen's Alumni Association, professional associations, and at conferences.
- Consider joining professional associations. Talk to your supervisor for advice.

**LAUNCH YOUR CAREER**

- Participate in hiring committees and attend job talks. Research careers of interest. Craft your CV or Resume and job application materials.
- Start focusing on areas of interest. Research organizations of interest and start putting together your resume for potential positions of interest. Get help from Career Services with job searching, resumes, or interviews.

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**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, draft and act on conclusions
- Creativity and Innovation
- Perseverance
- Independence and experience as a collaborative worker
- Awareness, understanding of sound ethical practices, social responsibility, research and cultural sensitivity
- Professionalism in all aspects of work, research, 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. Many of our MASc students choose to continue their academic inquiry with a 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, GM Canada
- Startups in all sectors, such as wearable devices, intelligent apps
- Services such as financial, pension, and 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.

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