Why GRADUATE STUDIES in CIVIL ENGINEERING?

As a Master’s student in the field of Civil Engineering, you can play a vital role in future developments in such areas as rock mechanics, design of foundations, water quality, sediment transportation, pipeline flow, construction and rehabilitation of structures, and many other areas. Civil Engineering has a wide range of applications that contribute to modern life and its infrastructure.

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 Master’s student in Civil Engineering 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 Civil Engineering.

The Queen’s graduate programs in Civil Engineering are home to some of the finest minds in the fields of civil and environmental engineering. Students have the chance to study engineering in an environment where multidisciplinary research and activities are encouraged and facilitated. Research activity in the Department is generally classified under two fields: Civil Engineering Environment and Civil Engineering Infrastructure.

The Civil Engineering Department’s objective is to provide a broadly-based education in civil engineering which is intrinsically supported by world-class research in the areas of Structural, Geotechnical, Hydrotechnical, and Environmental Engineering.

Program STRUCTURE

MASc (2 years): 4 graduate term length courses, research, and a thesis.

RESEARCH Areas

- Geotechnical Engineering
- Environmental Engineering
- Hydrotechnical Engineering
- Structural Engineering

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

Visit the Civil Engineering website to read about research areas and learn more about faculty members’ research specialization. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience.
**Civil Engineering**

**MASc MAP**

**GETTING STARTED**

**ACHIEVE YOUR ACADEMIC GOALS**

- 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 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**

- Start to think about the audiences for your research.
- If you will be continuing graduate studies, apply for NSERC and OGS funding.

**BUILD SKILLS AND EXPERIENCE**

- Consider positions in student services, the SOPS, or media outlets like the Queen's Journal CPR and the SGS Blog, look in the AMS Clubs Directory for more ideas.
- Serve on departmental or university committees. Talk to the Graduate Student President for tips on getting involved.
- Check out professional development workshops from Expanding Horizons and the Chemical Engineering Department.

**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 one of the Engineering Society's 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 counselor. Check out books like "So What Are You Going to Do With That?" for advice on various career options.
- 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 Graduate Students' Career Week to explore your career pathways.
- Check admission test deadlines if needed for further studies.

**INTERMEDIATE STAGE**

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**WHAT WILL I LEARN?**

A graduate degree in Civil 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
- Entrepreneurship
- Leadership: initiative and vision leading people and discussion

**WHERE CAN I GO?**

A Master's degree in Civil Engineering can take you 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:

- Academia and Research
- Consulting
- Public sector
- Manufacturing
- Policy and Governance
- Civil Engineering in the public domain
- Law

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.

**WRAPPING UP**

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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, 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
• 4-year Bachelor’s degree in Engineering or a cognate science.
• Grade requirements: minimum B (70%+) average over the four years of undergraduate study. Grades in specific courses in the final two years are also considered.

ADDITIONAL REQUIREMENTS
• If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening. The School of Graduate Studies requires the following minimum scores: TOEFL (paper-based): 550, (2) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30), for a total of 88/120 (applicants must have the minimum score in each test as well as the minimum overall score), or (3) IELTS: 7.0 (academic module overall band score), or (4) PTE Academics: 65.

KEY DATES & DEADLINES
• Application deadline: March 1 to qualify for internal funding.
• Notification of acceptance: 2-3 months after the full application has been received.

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

What about FUNDING?
The basic funding package for Civil Engineering Master’s students may include teaching or research assistantships and graduate awards. The funding package is something to be discussed between yourself and your supervisor before accepting the offer.

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

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