

Chemical Engineering MEng Map

Applying to and Navigating Graduate Studies

GRAD MAP FOR MEng STUDENTS 

Why GRADUATE STUDIES in CHEMICAL ENGINEERING?

As a Master's student in the field of Chemical Engineering, you can play a vital role in future developments in such areas as biological conversion, pollution prevention and treatment, tissue engineering, process control and optimization, (bio)chemical sensing, nanocomposites, and many other areas. Chemical Engineering has a wide range of applications that contribute to modern life and its technologies.



STUDY Areas

- Bioengineering
- Clean Energy and Sustainable Environment
- Materials and Interfaces
- Process Systems Engineering and Systems Biology

Visit the [Chemical Engineering website](#) to learn more about this program and its opportunities.



Why QUEEN'S?

As a Master's student in Chemical Engineering at Queen's you are part of one of the most academically intensive universities in Canada. Our Engineering department is internationally renowned with a wide range of courses in all of the major specialization areas.

The Chemical Engineering Department has links to a number of multi-disciplinary centres at Queen's, including: Centre for Health Innovation, Green Centre Canada, Innovation Park, the Queen's Centre for Energy and Power Electronics Research (ePOWER), and the Queen's Innovation Connector. The Department also houses the Polymers Research Group (PRG), with strengths in polymer reaction engineering, processing, and rheology.

Program STRUCTURE

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



**SMITH
ENGINEERING**
Queen's University

**GRADUATE STUDIES AND
POSTDOCTORAL AFFAIRS**

2023-2024

Chemical Engineering MEng Map

MASTER OF ENGINEERING (MEng)



WHAT WILL I LEARN?

A graduate degree in Chemical Engineering will empower you with:

- 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**
- Perseverance**
- Independence** and experience as a collaborative worker
- Awareness**, an understanding of sound ethical practices, social responsibility, responsible 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 Chemical Engineering can take your career in many directions. Many of our M.Eng. students choose to continue their academic career with an MASc or a PhD. Our Master's students are also equipped with a strong foundation for careers in:

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

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

How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions – you don't have to do it all! To make your own custom map, use the [My Grad Map](#) tool.

Graduate Studies FAQs

How do I use this map?

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's degree in Engineering or other relevant program.
- **Grade requirements:** minimum B+ (77%) average.

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 following minimum scores are required: (1) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30). Applicants must have the minimum score in each test as well as the minimum overall score, or (2) IELTS: 7.0 (academic module overall band score and a 7.0 for each test band), or (3) PTE Academics: 65, or (4) CAEL CE -70 (minimum overall score).

KEY DATES & DEADLINES

- **Application due:** April 1.
- It is recommended that the application be completed at least 4 months ahead of the desired admission cycle, especially for international students.
- This is a one-year program with a start date of September only.

Before you start your application, please review the [Graduate studies application process](#).

What about FUNDING?

Chemical Engineering MEng graduate students are required to be self-funded.



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