

Mining Engineering MEng Map

Applying to and Navigating Graduate Studies

Why Graduate Studies in Mining Engineering?

Mining is the foundation of industrial civilization. It is the process of extracting minerals like gold, silver, copper, nickel, uranium (metallic), salt, potash, coal, limestone aggregate and oil (non-metallic) formations that concentrate naturally in the earth. It may surprise you, but other than agricultural products, the raw ingredients for everything else in our modern lives comes from mining.

Mining Engineering is one part technical design and one part business management. Mining engineers are responsible for deciding how valuable a mineral deposit is and how best to mine it, for planning the day-to-day schedule and path of mining to maximize extraction and profit, and for ensuring the safety of people and equipment



through applications in areas such as mine ventilation and rock mechanics.

Why Queen's?

As a Master's student in Mining Engineering at Queen's you are part of one of the most research intensive universities in Canada. Our academic program is internationally renowned with a wide range of teaching in all of the major specialization areas of mining engineering.

As technology evolves and the global economy changes, our students and researchers play a key role in advancing the state of the art in mining. In close collaboration with industry partners, our faculty and students work to make mining operations safer, more efficient, more productive, less impactful on the natural environment, and more cost effective.

Study Areas

- Chemical Extraction of Metals
- Management of Social Risk & Community Relations
- Drilling and Blasting
- Geotechnical, Environmental,

Sustainability, & Mineral Economics

- Geostatistics & Geometallurgy
- Mineral Planning & Design of Mechanical Systems
- Mineral Processing
- Mine Design and Planning
- Sustainability Standards
- Occupational Health and Safety Reliability, Maintenance, & Risk Assessment

Program Structure

MEng (1 year): Complete course work. The program may be completed in 2 or 3 terms.

The Mining MEng program requires completion of 8 courses: 6 from our list of CORE courses and 2 from the list of electives. The program is offered in an on-campus face-to-face format, with a maximum of 2 online courses. The MEng Project course (MINE 898), offers students the opportunity to engage in research, in areas that interest them. All courses are selected with advice from the MEng Coordinator.



Mining Engineering MEng Map

MASTER OF ENGINEERING (MEng)



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. To make your own custom map, use the My Grad Map tool: [careers.queensu.ca/gradmaps](#).

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 Professional Development Plan (PDP) 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?

Queen's offers graduate students from every discipline a close-knit intellectual community where they can learn, discover, and build lasting connections. With more than 130 graduate programs across 50+ departments and research centres, students benefit from world-class scholars, prize-winning professional development, generous funding packages, and life in the historic waterfront city of Kingston. The campus sits at the heart of Kingston, just a 10-minute walk from downtown's shops, restaurants, and waterfront, and is deeply integrated with the local community. For more on 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

- A Bachelor's degree in Mining, Geological Engineering, Mechanical Engineering, or Chemical Engineering. Many of our students come from industrial backgrounds.
- **Grade requirements:** B- (70%) average.

ADDITIONAL REQUIREMENTS

- If English is not a first language, nor was the language of instruction in undergraduate studies, prospective students must meet English language proficiency requirements in writing, speaking, reading, and listening as part of the application process, and before final acceptance is granted, as per School of Graduate Studies and Postdoctoral Affairs' regulations.

KEY DATES & DEADLINES

- **Application deadline:** January 31st.
- **Notification of acceptance:** March 31st.

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

What about Funding?

Mining Engineering MEng students are self-funded. For more information on awards and scholarships, consult the School of Graduate Studies and Postdoctoral Affairs' website.

