Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
- A Bachelor’s degree in Mining, Mechanical Engineering, Chemical Engineering or other related engineering fields. Many of our students come from industrial backgrounds. Anyone without academic prerequisites will be placed on probation and required to take additional courses before initiating a MEng program of study.
- Grade requirements: B+ (70%) 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 School of Graduate Studies requires the following minimum scores: TOEFL (paper-based) 550, (internet-based) 80; IELTS: 7.0 (academic module overall band score), or (3) PTE Academics: 65.

KEY DATES & DEADLINES
- Application deadlines: March 1st.
- Notification of acceptance: April 30th.

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

What about FUNDING?

Mining Engineering MEng students are self-funded.

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 and uranium (metallic) and 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 profit, and for ensuring the safety of people and equipment through applications in areas such as mine ventilation and rock mechanics.

Check out whygradstudies.ca for more reasons to choose graduate studies in engineering.

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 defining 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
- Mine Design and Planning
- Drilling and Blasting
- Chemical Extraction of Metals
- Management of Social Risk & Community Relations
- Mineral Planning & Design of Mechanical Systems
- Mineral Processing
- Geotechnical, Environmental, Sustainability, & Mineral Economics
- Geostatistics & Geometallurgy
- Occupational Health and Safety Reliability, Maintenance, & Risk Assessment
- Mining and Sustainability
- Equipment Reliability and Maintenance
GETTING STARTED

ACHIEVE YOUR ACADEMIC GOALS

- Start with key priorities like developing relationships with your faculty members and doing your initial coursework.
- Consider the reasons why your course choices can contribute to your MEng study goals.
- Find your way through the academic process with help from the department and the Professional Development Workshops, the department Grad Chair and the SGS Habitat.

MAXIMIZE LEARNING IMPACT

- Start to think about what you want to get out of your degree such as specific industry experience or potential career opportunities by exploring your interests through classes.

BUILD SKILLS AND EXPERIENCE

- Consider positions in student services, the SGPS, or media outlets like the Queen's Journal, CFRC, and the SGS Blog. Look in the AMS Clubs Directory for more ideas.
- Serve on departmental, faculty or university committees. Talk to the Society of Graduate and Professional Students (SGPS) for tips on getting involved.
- See professional development workshops from Expanding Horizons.

ENGAGE WITH YOUR COMMUNITY

- Explore how you can connect with your community through community service, internships, or industry-related events.
- Consider volunteering with different community organizations.

LAUNCH YOUR CAREER

- Finding a career that fits starts with knowing yourself. Get help by taking a Career Services workshop or meeting with a career councillor. 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 School of Graduate Studies Career Week to explore your career pathways.
- Check admission test deadlines if needed for further studies.

INTERMEDIATE STAGE

GETTING STARTED

ACHIEVE YOUR ACADEMIC GOALS

- Complete your coursework.
- Complete the AODA 800 non-credit course in Accessible Customer Service.
- Become a Teaching Assistant.
- Take the non-credit course on laboratory safety (CHEM 801) or (MINE 862).

MAXIMIZE LEARNING IMPACT

- Learn about the latest developments in the mining industry by following publications such as the Canadian Mining Journal.
- Collaborate with other departments, such as Geological, Mechanical, Chemical, and Civil Engineering.

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 P4TL certificate.
- Use a Research or Teaching Assistantship to develop your skills.

ENGAGE WITH YOUR COMMUNITY

- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences.
- Prepare for work or studies in a multi-cultural environment by taking the Intercultural Awareness Training Certificate hosted by QUIC and Four Directions Indigenous Student Centre.
- 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 Alum".

WRAPPING UP

GETTING STARTED

ACHIEVE YOUR ACADEMIC GOALS

- Participate in and observe research work submitted to Mining Engineering graduate students and faculty in the graduate seminar (MINE 897).

MAXIMIZE LEARNING IMPACT

- Attend a major conference in your field, such as the Oil Sands Innovation Summit, the Canadian Mining Expo, the Canadian Institute of Mining (CIM) Annual Meeting, or the Quebec Mining Exploration Convention.

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.

ENGAGE WITH YOUR COMMUNITY

- Do some targeted networking with people working in careers of interest, through Queen'sConnects on LinkedIn, the Queen's Alumni Association, professional associations, and at conferences. Get help from a Career Services workshop.
- Consider joining professional associations like the Mining Association of Canada (MAC), the Canadian Institute of Mining (CIM) and the International Society of Mining Engineers (SME).

LAUNCH YOUR CAREER

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

WHAT WILL I LEARN?

A graduate degree in Mining Engineering can equip 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 Mining Engineering can take your career in many directions. Some of our MEng students choose to continue their academic career as MASc or as PhD students within our department. Graduates have also found job opportunities in diverse settings including:

- Consulting Firms
- Mining Companies
- Mining Equipment and Technology Providers
- Non-Governmental Organizations
- Financial Institutions

Taking time to explore career options, build experience, and network can help you make 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!