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 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.

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.

Queen's Mining Engineers work in metals and industrial minerals, with consulting companies, geotechnical groups, environmental groups, heavy and light equipment manufacturing companies, computer software and hardware development organizations, banks, government institutions and university organizations. We are at the forefront in developing computer applications for engineering design in mineral extraction and work in close contact with the mineral industry.

Program STRUCTURE

MEng (1 year): Complete course work.

STUDY Areas

- Mine Design and Planning
- Drilling and Blasting
- Chemical Extraction of Metals
- Mining and Sustainability
- Equipment Reliability and Maintenance

Areas of SPECIALIZATION

- 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 & Rock Mechanics
- Reliability, Maintenance, & Risk Assessment
Where can I go?
A Master’s degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHAT WILL I LEARN?
A graduate degree in Mining 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
- 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 M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
A Master's degree in Mining Engineering can take your career in many directions. Some of our M.Eng. students choose to continue their academic career as M.A.Sc. or Ph.D. 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 have a smooth transition to the world of work after graduation.

WHERE CAN I GO?
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
- 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 M.Eng 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, (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 1st.
- Notification of acceptance: April 30th.

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

What about FUNDING?

Mining Engineering M.Eng. students are self-funded.

Kate Cowperthwaite, Graduate Assistant
(613) 533-2230
mine.office@queensu.ca
mine.queensu.ca