### Application FAQs

**What do I need to know to APPLY?**

**ACADEMIC REQUIREMENTS**
- A Master's degree in Mining Engineering. Applicants with a Master's degree in a cognate science may be admitted.

**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, (IBT): Writing (21/30), 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?

The level of financial is at a guaranteed minimum level of $18,000 for PhD students. As part of the minimum funding package, you may also serve as a Teaching Assistant and gain additional pay for this service.

You are encouraged to apply for external funding from OGS, NSERC and other sources. Queen’s will automatically issue a $10,000 top-up award to winners of federal government Tri-Council awards for PhD studies. For more information, see the School of Graduate Studies’ information on awards and scholarships.

### 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 whyggraduates.ca for more reasons to choose graduate studies in engineering.

### Why QUEEN’S?

As a PhD student in Mining 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 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.

Our students come from all over the world. At Queen’s, graduate students from all disciplines learn and discover in a close-knit intellectual community.
YEAR I

**ACHIEVE YOUR ACADEMIC GOALS**
- Write and defend your thesis proposal.
- Attend or present at a graduate conference such as the Canadian Institute of Mining (CIM) Annual Meeting.
- Attend or present at the MINE 899 Examination of Research Progress.
- Complete or publish students' dissertations.
- Complete the laboratory safety course (CHEM 801) or (MINE 862).

**MAXIMIZE RESEARCH IMPACT**
- Attend or present at a graduate conference such as the Canadian Institute of Mining (CIM) Annual Meeting.
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**BUILD SKILLS AND EXPERIENCE**
- Serve on faculty or university committees.
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**ENGAGE WITH YOUR COMMUNITY**
- Consider volunteering with different community organizations.
- Connect to broader communities of engineers by joining Engineering Design Society Design.
- Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups like Materials Matters.

**LAUNCH YOUR CAREER**
- Start building your teaching portfolio including student evaluations and seeking mentorship.
- Explore different careers by reading alumni profiles on the SGS website.
- Start publishing and networking with colleagues through the Mining Association of Canada (MAC) and the Canadian Institute of Mining (CIM).
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**YEAR II**

**ACHIEVE YOUR ACADEMIC GOALS**
- Continue to present at conferences.
- Find opportunities for extra training through CTL.
- Attend or present at a graduate conference such as the Canadian Institute of Mining (CIM) Annual Meeting.
- Attend or present at the MINE 899 Examination of Research Progress.
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**YEAR III**

**ACHIEVE YOUR ACADEMIC GOALS**
- Continue to present regularly with your supervisor, review research progress, and prepare for your dissertation.
- Use conference presentations that discuss, design, and explore to disseminate research findings.
- From the Expanding Horizons, Publishing workshop.
- Complete or publish students' dissertations.
- Complete the laboratory safety course (CHEM 801) or (MINE 862).

**MAXIMIZE RESEARCH IMPACT**
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**YEAR IV & TRANSITIONING**

**ACHIEVE YOUR ACADEMIC GOALS**
- Complete and defend your research thesis (MINE 999).
- Present your research at conferences and work with your supervisor to prepare for defence.
- Review submission and examination guidelines.
- Secure necessary oral defence accommodations.
- Print and distribute lecture notes and publications with your supervisor.

**MAXIMIZE RESEARCH IMPACT**
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**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 and application 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 PhD in Mining Engineering can take your career in many directions. In Canada, less than 40% of all PhDs will work in post-secondary education – the majority will work in industry, government, or non-government organizations.

Graduates from the Mining Engineering PhD program have found careers within:

- Academia and Research
- Consulting
- 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.

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