Graduate Studies FAQs

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, (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?

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 provides you with a broad range of awards and scholarships, with a wide range of research activities in all departments and research centres. 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.

What is the community like?

At Queen's, 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.

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 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.

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.

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.

Department of Mining

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Mining Engineering Ph.D Map

Applying to and Navigating Graduate Studies

RESEARCH Areas
- Mining Engineering
- Mine-Mechanical
- Mineral Processing
- Geomechanics, Seismicity, Geodynamics
- Blasting, Mine to Downstream Operations
- Ventilation
- Pyrometallurgy, Biohydrometallurgy, Environmental
- Pynemattallurgy, Microwaves in metal extraction
- Mineral Processing
- Geochemistry, Geometricallurgy
- Data analytics
- Reliability, Maintenance and Risk Assessment
- Health and Safety
- Social Risk and Community Relations

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the Mining Engineering website to read about faculty profiles and learn more about faculty members’ research interests. Find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience. You can also find out if the faculty member is accepting new graduate students to supervise by meeting your potential supervisor at departmental events for prospective students.

GRAD MAP FOR PHD STUDENTS

School of Graduate Studies
Create an impact

www.queensu.ca/sgs
Mining Engineering PhD Map

**DOCTOR OF PHILOSOPHY (PhD)**

### YEAR I
- **Key priorities**: include forming your research committee, coursework and comprehensive exams.
- **Meet early with your supervisor to set expectations and discuss roles, responsibilities, program requirements, resources, research/occupational goals, timelines, and any required accommodation plans.**
- **Look to Student Academic Success Services and Expanding Horizons for supports and workshops.**
- **Complete the laboratory safety course (CHEN 801) or (MINE 862).**

### YEAR II
- **Write and defend your thesis proposal.**
- **Embark on your substantive research.**
- **Present your research in a seminar to Mining Engineering graduate students and faculty (MINE 897).**
- **Complete your PhD comprehensive exam within 4-18 months after registering.**
- **Set up regular meetings with your supervisor to discuss progress and obstacles to timely completion.**
- **Seek experiential/professional development opportunities.**

### YEAR III
- **Continue to meet regularly with your supervisor, review research progress and write your dissertation. Check out the SGS Dissertation Boot Camp or Dissertation on the Lake.**
- **Use conference presentations to create, discuss, and explore ways to disseminate research findings. Learn from the Expanding Horizons Publishing workshop.**
- **Begin discussion of potential thesis defence examiner opportunities.**

### YEAR IV & TRANSITIONING
- **Complete and defend your research thesis (MINE 999).**
- **Attend your research conferences and work with your supervisor to prepare for defence.**
- **Review submission and examination guidelines.**
- **Secure necessary oral defence accommodations.**
- **Discuss career pathways, reference letters, and publication options with your supervisor.**

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**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, critique 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 PhD in Mining Engineering can take your career in many directions. In Canada, less than 40% of all PhDs who 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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[Visit careers.queensu.ca/gradmaps for the online version with links!](https://careers.queensu.ca/gradmaps)

*This map is intended to provide suggestions for activities and careers, but everyone's abilities, experiences, and constraints are different. Build your own Grad Map using our online My Grad Map tool.*