Succeed in the workplace

What employers want
The Canadian Council of Chief Executives list the top 6 skills sought by employers as:
1. People skills
2. Communication skills
3. Problem-solving skills
4. Analytical abilities
5. Leadership skills
6. Industry-specific knowledge

Take the time to think about the unique skills you have developed at Queen’s, starting with the skills list here for ideas. Explaining your strengths with compelling examples will be important for applications to employers and further education. For help, check out the Career Services skills workshop.

What can I learn studying MINING ENGINEERING?
- Proficiency in mathematics and physical sciences
- Proficiency in mining sciences
- Relevant analysis and designing skills
- Relevant work experience in mining engineering
- Working knowledge of design software for mining engineering
- Written and oral communication skills
- Time and resource management
- Ability to work independently and in a team on projects

Get to know MINING ENGINEERING
Aside from the plant material we harvest, all of the raw material used by human society comes from minerals extracted from the earth. This program prepares you for careers in both the minerals industry and related environmental and technological fields. As a Mining Engineering student, you will study a broad range of disciplines involved in locating, extracting, refining, and disposing of mineral and metal products and byproducts. The program teaches students how these processes can be carried out efficiently and competitively, with a focus on sustainability and the environment.

Degree OPTIONS
Bachelor of Science in Engineering
Bachelor of Science in Engineering with Professional Internship
Option in Mining / Minerals Processing and Environmental / Mine-Mechanical

Queen’s ADMISSIONS
Students apply to Queen’s Engineering (QE) through the OUAC (Ontario University Application Centre) website. Secondary School prerequisites include six 4U, one of which must be English 4U. Calculus and Vectors 4U, Chemistry 4U, and Physics 4U are all required along with one of Advanced Functions 4U, Biology 4U, Data Management 4U, Computer Science 4U, Earth and Space Science 4U. A final grade of 70% must be obtained in English 4U. Applicants outside of Ontario may have additional requirements.

A Common START
Queen’s is unique in offering a common First Year along with an open discipline choice.

Our program is designed to address the entire mine life-cycle, from exploration to mine closure and offer solutions that not only enhance the competitiveness of the mining industry but also ensures compatibility with evolving societal values.

Experience.

Get to know MINING ENGINEERING

That is a degree from Queen’s.
GET THE COURSES YOU NEED

1ST YEAR
Queen’s Engineering first year is common – courses include: Physics, Chemistry, Calculus, Algebra, Graphics, Computing and Earth Systems Engineering. Also APSCI100, the entry level course in our Engineering Design and Practice Sequence (EDPS), focusing on problem solving, experimentation principles and finishing off with a team-based engineering project.
Discipline selection will take place in February!

2ND YEAR
Courses include: Solid Mechanics, Differential Equations, Mining & Mineral Processing, Computer Applications & Instrumentation in Mining, Engineering Economics, Electric Circuits & Machines, Numerical Methods and Underground Mining.
You will take the second EDPS course – APSCI200.
Your other 3-4 courses depend on your option!

3RD YEAR
Your other 5 courses depend on your option!

GET RELEVANT EXPERIENCE
Join teams or clubs on campus such as the Queen’s University Experimental Sustainability Team (QUEST).
See the AMS Clubs Directory or the Queen’s Get Involved page for more ideas.

GET CONNECTED WITH THE COMMUNITY
Volunteer on or off campus with different community organizations such as Engineers without Borders (EWB).
Consider joining an intramural sports or an athletics team. Check out the Athletics & Recreation site.

GET THINKING GLOBALLY
The Queen’s University International Centre is your first stop to learn how to internationalize your degree or to leverage your existing cross-cultural experience.
Speak to a QUIC advisor or get involved in their programs, events and training opportunities.

GET READY FOR LIFE AFTER GRADUATION
Grappling with program decisions? Go to the Orientation Evenings held by different Engineering departments and attend the various Career Fairs during the year.
Get some help deciding by visiting Career Services.

Where could I go after graduation?
- Academia
- Banking and venture capital
- Business management (mine managers, director, vp, ceo, president)
- Environmental management
- Equipment designer
- Government (mine inspector, health and safety, environment)
- International development
- Law
- Medicine
- Mine construction
- Mine engineer
- Mine planner and scheduler
- Mine supervisor
- Mineral exploration
- Mineral processing
- Metallurgist
- Mining consultant
- Mining financial analyst
- Mining sales representative
- Mining supplier
- Occupational health and safety
- Petroleum and gas industry
- Project engineer
- Project manager
- Renewable resources
- Sustainability
- Technical specialist
- Waste management
- Some careers may require additional training

Visit careers.queensu.ca/majormap for the online version with links!