

What can you do with a degree in... Mining Engineering?



What is Mining Engineering?

Mining engineers design, develop and implement the processes and technologies for taking minerals from the earth while minimizing the impact on the environment. It involves planning and discovering, extracting and processing, marketing, and utilizing minerals from the crust of the earth. A Mining Engineer can play diverse roles throughout a wide range of specialized field opportunities.

Mining engineers have a solid foundation in math, chemistry, physics and geology. They enjoy taking on responsibility, have good people skills, and should be comfortable in remote areas and the great outdoors since they spend plenty of time on-site. They are also creative problem-solvers since they design and implement new processes and technologies for mining, and also adapt them to the constraints of location, time and budget.

Where do graduates work?

There is a current shortage of mining engineers worldwide due an economic increase of demand for minerals, thereby creating career opportunities for mining engineers. Mining work can be found in urban or remote areas, and local or abroad locations. With proper communication and problem solving skills, engineers can equally find work in financial institutions, technical sales, management, business development, or even begin their own businesses.

Recent graduates in Mining Engineering have gone on to exciting careers in a wide variety of industries, here a just a few:

Caterpillar, Technical Sales Representative
IAMGOLD, Jr. Mining Engineer
Osisko, Mining Engineer
Suncor, Field Engineer
Xstrata, Process Engineer



Industries

Students gain invaluable experience and industry contacts through the co-op program and are often able to find a job with one of their work-study companies. Most graduates work in the mining industry, but their capacity for responsibility and their management skills mean they often move into larger project management roles. Some graduates eventually become consultants, bringing their expertise to mining operations around the world.

- Mining
- Construction, Building & Design
- Transportation
- Energy and Utilities: Alternative Energy, Hydro, Oil & Gas, Water
- Engineering & Management Consulting
- Financial & Insurance
- Scientific & Technical Services

Useful Resources

Career Resources

McGill Engineering Career Centre

- Resources, information, job postings and links for engineering students

myFuture

- Job postings McGill students

Mining Engineering Co-op Program

- Mining Engineering features four co-op work terms. Each four-month work term is a 2-credit course.

The Engineering Institute of Canada

- Engineering Career Network

Professional Organizations

Engineers Canada

- The national organization of the 12 licensing bodies that regulate the practice of engineering in Canada

Ordre des ingénieurs du Québec

- The regulating body for Engineers in Quebec

Canadian Institute of Mining, Metallurgy and Petroleum (CIM)

Society for Mining, Metallurgy & Exploration



Student Life

You will have the opportunity to participate in a variety of clubs, activities and student government. Getting involved in a club or other group is a great way to meet people and build your résumé.

Engineering Undergraduate Society (EUS)

Promoting Opportunities for Women in Engineering (POWE)

Engineers Without Borders

The Canadian Mining Games

- Annual academic and hands-on competition between students from major Mining Engineering programs across Canada.

Student Affairs Office

- Housed in the Engineering Student Centre; Academic Advisors provide assistance and information on program planning and academic success.

Salary Information*

Starting salaries will vary according to location, industry and employer.

Average annual salaries for new graduates

Canada: \$55,000 - \$62,000

Mine Sites: \$60,000 - \$80,000

Internship Salaries

\$15 - \$26 per hour

**Sources include: CACEE Campus Recruitment and Benchmark Survey (2011), RIQ Enquete sur la rémunération directe des ingénieurs salariés du Québec (2012), Recent Graduates 2010, Government of Canada (2010)*



Contact Us

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