

MINING AND MATERIALS ENGINEERING

About the Department of Mining and Materials Engineering

The Department of Mining and Materials Engineering offers programs leading to the Bachelor of Engineering degree in Materials Engineering or Mining Engineering. In addition to regular courses and laboratories, the curriculum includes seminars, colloquia, and student projects reinforced by field trips to industrial operations.

For detailed information on each program, see the Programs tab.

Scholarships

The Department offers renewable Entrance Scholarships every year. A substantial number of other scholarships and bursaries are also awarded by the Department, as well as by the Canadian Mineral Industry Education Foundation, Canadian Institute of Mining Foundation, Quebec Mining Association, and others.

Please refer to the Faculty of Engineering website's Scholarships and Financial Aid section for more information.

About Materials Engineering Co-op in Materials Engineering

The Materials Engineering degree is a cooperative program leading to a B.Eng. and includes formal industrial work periods. It is built on a strong background of mathematics, basic sciences, computer skills and applications, and specific engineering and design courses to provide up-to-date training in materials engineering. Students take core courses covering processing, fabrication, applications, and performance of materials.

The program is fully accredited by the Canadian Engineering Accreditation Board (CEAB) and is designed to offer students exceptional training for employment in the field.

The core courses are supplemented by complementary courses, which provide a diverse selection of specialties for the graduating engineer. The course structure is reinforced with laboratory exercises. Graduates find employment in a wide range of industries, including the resource and manufacturing sectors. Students in the Co-op program benefit from practical learning experience gained from work-term employment in meaningful engineering jobs, as well as non-tangible learning experiences arising from the responsibilities required to obtain and successfully complete the work terms.

Regarding the Co-op program fees, an amount of \$273.76 will be billed during ten consecutive terms for a total amount of \$2,737.60 before graduation. These fees cover expenses directly related to the operation of the Co-op program. Students must register for each of their industrial training courses within the university registration period for returning students or late fees will apply. Before registering for any work term course, students must contact the Co-op in Materials Engineering Liaison Officer for approval.

Student Advising

Students entering this program must plan their schedule of studies in consultation with one of the departmental advisors. Appointments may be obtained by contacting the Administrative and Student Affairs Coordinator.

For more information, please refer to the Academic Advising section of the department's website.

About Mining Engineering Co-op in Mining Engineering

McGill is proud to be the host of the oldest mining engineering program in Canada, which started in 1871. The program is known for the excellence of its courses as well as the training it provides in mining science and technology, mineral economics, mine planning, rock mechanics, renewable energy, and mine design. Mining offers excellent career opportunities in Canada and around the world. There have been rapid technological developments in recent years, presenting numerous challenges to students with strong interest in engineering and a taste for innovation.

The Department offers a co-operative program leading to an accredited B.Eng. degree in Mining Engineering. It includes three paid industrial work terms. The Department has a dedicated Mining Co-op Liaison Officer to help the students find jobs in industry. The program is offered in one of two streams: English Stream for high school students and Bilingual Stream for CEGEP students, in collaboration with the mining engineering program at *Polytechnique Montréal*. Students in the Bilingual Stream take six mining courses at Polytechnique Montréal at the latter part of the program. The teaching and learning style in mining courses is one that permits the students to sharpen their communication skills—both written and oral—and develop their team working skills.

A wide range of scholarships are available to new and continuing students from the Department, Faculty of Engineering, as well as from industry. The Department provides financial support to students who are willing to participate in mining competitions, such as the Canadian Mining Games and World Mining Competition.

When taking a co-op work term, students must register for MIME 290 Industrial Work Period 1., MIME 291 Industrial Work Period 2., and MIME 392 Industrial Work Period 3.; thus, co-op work terms appear on the student transcript. Interested students may also take a fourth work term as a complementary course and a fifth one as an extra course.

Student Advising

The Department gives priority to their academic advising service. Each student in the mining engineering program is assigned an academic advisor at the start of their study at McGill and for the duration of their undergraduate degree. Our academic advising service ensures quality and individual guidance to each student in the program. Students will meet with their advisor at least once a year to discuss their progress and interest in exchange with other mining schools or taking a minor in their areas of interest among other things.

For more information, please refer to the Academic Advising section of our website.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms

offered" field will appear blank for most courses while the class schedule is being finalized.

Available Programs

- Co-op in Materials Engineering (B.Eng.) (148 credits)
- Co-op in Mining Engineering (B.Eng.) (150 credits)
- Materials Engineering (B.Eng.) (148 credits)
- Mining Engineering (B.Eng.) (144 credits)

Location

General Office

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Materials

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Mining

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