

## EDUCATION & EXPERIENCE

- ▶ Completion of Grade 12 is required.
- ▶ Geological and mineral technologists usually require completion of a two- to three-year college program in geological technology, petroleum technology, petroleum engineering technology, hydrogeology or groundwater technology, mining technology, mining engineering technology, mineralogy, metallurgical technology, or welding technology.

## TRAINING

- ▶ Certification in geological and mineral technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- ▶ A period of supervised work experience, usually two years, is required before certification.

## CAREER ADVANCEMENT POTENTIAL

- ▶ There is limited mobility between occupations in this group.
- ▶ Mobility may be possible between some occupations in this group and related fields of civil engineering technology.

To learn more about a career as geological and mineral technologists and technicians (including information about work duties and working conditions, salaries and employment prospects), you can access information in the National Occupation Classification (NOC) System at [www.workbc.ca](http://www.workbc.ca). The NOC code for this occupation is 2212

# GEOLOGICAL & MINERAL TECHNOLOGISTS & TECHNICIANS

Geological and mineral technologists and technicians provide technical support and services or may work independently in the fields of oil and gas exploration and production, geophysics, petroleum engineering, geology, mining and mining engineering, mineralogy, extractive and physical metallurgy, metallurgical engineering and environmental protection. They are employed by petroleum and mining companies, consulting geology and engineering firms, and by governments and educational institutions as well as by a variety of manufacturing, construction, and utilities companies.



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## JOB DESCRIPTION

If you're a geological or mineral technologist or technician, you perform some or all of the following duties:

- ▶ Conduct, direct or participate in geological, geophysical, geochemical, or hydrographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs and in environmental audits and related environmental protection activities.
- ▶ Operate and maintain geophysical survey and well logging instruments and equipment.
- ▶ Prepare notes, sketches, geological maps and cross sections; and prepare, transcribe or analyze seismic, gravimetric, well log or other geophysical and survey data.
- ▶ Prepare, supervise or assist in the preparation of rock, mineral or metal samples and perform physical and chemical laboratory tests.
- ▶ May conduct, supervise or assist on studies and programs related to mine development, mining methods, mine ventilation, lighting, drainage and ground control.
- ▶ May assist hydrologists in evaluating groundwater and well circulation.
- ▶ Carry out a limited range of other technical functions in support of geology, geophysics and petroleum and mining engineering.

Seabridge Gold developed its job fact sheets using information from Human Resources and Skills Development Canada's 2006 National Occupational Classification, Work BC ([www.workbc.ca](http://www.workbc.ca)) and the Mining Industry Human Resource Council (<https://mihr.ca>). To learn more about Seabridge Gold and its projects, visit [www.seabridgegold.com](http://www.seabridgegold.com).