

GEOLOGICAL AND MINERAL TECHNICIAN / TECHNOLOGIST

Geological and Mineral Technologists have good physical endurance, enjoy working outdoors, are adaptable, detail-oriented and provide technical services related to production.

Job Description

- Conduct or direct geological, geophysical, geochemical, hydrographic or oceanographic surveys, drilling, well logging or underground mine survey programs
- Configure, operate and maintain survey instruments and equipment
- Prepare notes, sketches, geological maps and cross-sections
- Prepare, transcribe or analyze seismic, gravimetric, well log or other geophysical and survey data
- Assist Engineers and Geologists in the evaluation and analysis of petroleum and mineral reservoirs
- Prepare or supervise the preparation of rock, mineral or metal samples and may perform physical and chemical laboratory tests
- Conduct environmental audits
- Carry out various other technical functions in support of geology, geophysics and petroleum and mining engineering
- Support modeling of resource deposits and planning of new infrastructure and construction

Compensation

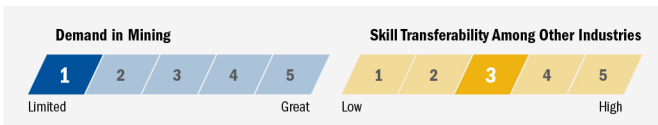
\$59,918

\$87,593

(Source: Canadian Mine Salaries, Wages & Benefits: 2018 Survey Results InfoMine USA, 2018).

Short-term employment contracts are common. In those cases, Geological and Mineral Technologists are paid for days worked at a rate of approximately \$200–\$260 per diem.

Job Prospects



Why are People Attracted to this Career?

Geological and Mineral Technologists enjoy a challenging variety of routine and new tasks, the outdoors, and appreciate the opportunity to learn and work with new technology.

What is it Like to Work as a Geological and Mineral Technologist in Mining?

Note: conditions vary according to employer and region.

Geological and Mineral Technologists work at the mine site with engineers and geologists or in a laboratory. In the mine, they prepare equipment, take samples, support mapping and drilling, enter data and package samples. With experience, they spend more time coordinating and compiling reports in an office.

Success Profile

- ☒ Identify issues and solve problems with a positive attitude
- ☒ Precise and accurate data collection
- ☒ Critical thinker
- ☒ Respect and understanding of safety procedures, regulations and legislation
- ☒ Learns quickly
- ☒ Organized
- ☒ Strong communication, computer, interpersonal and troubleshooting skills
- ☒ Strong interest in math, technology, Information Technology and science

Job Entry Requirements

Note: The requirements listed below illustrate what it takes to start the career and do not take into account on-the-job training given to new employees.

Fixed Requirements

- Post-secondary diploma (two-three years) in mineralogy, geology or a related program
- Proficiency with word processing, spreadsheet, and email software
- Must be able to pass a medical test
- Must be able to pass a drug test
- Willingness to work in a diverse environment
- Proficiency in language of operation

Regional Requirement

- Membership in the regulatory body to use the title "Professional Technologist"

May be Required

- Certification in geological and mineral technology or in a related field (available through provincial associations of engineering/applied science technologists and technicians)
- Computer-based drafting and design experience in AutoCAD or mining specific software
- Wilderness Survival Training

Assets

- Willingness to relocate
- Other languages