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 aerogeophysical 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 dem.

**Job Prospects**

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<th>Demand in Mining</th>
<th>Skill Transferability Among Other Industries</th>
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**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.

**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 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 a 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

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 mines, 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.

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