

MINING ENGINEER

Mining Engineers work in teams with other engineers and technologists to develop and construct new mines and manage existing mines.

Job Description

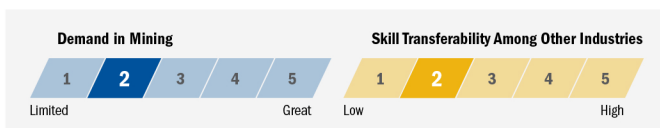
- Investigate and evaluate mineral deposits in collaboration with geologists, earth scientists and economists to determine their profitability
- Plan mine navigation systems, including tunnels and shafts for underground operations and pits and haulage roads for open-cut operations, using computer-aided design
- Consult with Geologists and other engineers about the design, selection and provision of specialty machines, facilities and systems for mining and infrastructure such as access roads, water and power supplies
- Oversee the construction of the mine and the installation of plant and equipment
- Troubleshoot to improve operational efficiencies
- Implement cutting edge processes and safety practices
- Supervise contractors, negotiate variations and remedial works, assure and control quality and measure work done.
- Lead or work on a team to ensure projects are completed to time, budget and high quality standards
- Write reports, attend meetings, and exchange, record and store information in compliance with legislation, regulations and company policies
- Ensure safety, improve operational efficiency and quality, control production costs and environmental protection
- Work cooperatively with other departments to optimize production, reduce costs, solve problems and meet deadlines
- Supervise junior engineers and technicians and assist supervisors in building an efficient work force

Compensation



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

Job Prospects



Why are People Attracted to this Career?

Mining Engineers seek challenging and rewarding technical work. With their strong analytical skills, they enjoy forming creative solutions to problems, and are well compensated for their efforts. They utilize new technologies effectively both independently and with a team.

What is it Like to Work as a Mining Engineer in Mining?

Note: conditions vary according to employer and region.

Mining Engineers work in an office on the mine site, but also spend a lot of time at the mine site. They experience challenging working conditions, such as confined spaces, at heights and near open holes. They must be willing and able to climb ladders and steel ramps on the surface and underground.

Success Profile

- ☒ Builds trust and maintains positive relationships with a wide variety of personnel
- ☒ Plans and works effectively in a fast-paced, dynamic environment
- ☒ Visualizes three-dimensional layouts
- ☒ Embraces new techniques and technologies
- ☒ Understands and respects safety procedures, regulations and legislation
- ☒ Intelligent, creative and goal-oriented
- ☒ Organized and a critical thinker
- ☒ Patient, flexible, adaptable and resilient
- ☒ Strong active listening and communications skills
- ☒ Strong analytical, computer skills
- ☒ Strong time management and planning skills
- ☒ Takes initiative
- ☒ Team player
- ☒ Works well under pressure

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

- Bachelor's degree in mining engineering
- Eligible for Registration as Engineer in Training
- Proficiency with word processing, spreadsheet and email software
- Specialized software skills
- 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

May be Required

- Professional Registration, P.Eng.

Assets

- Master's degree in mining engineering or related field
- Willingness to relocate
- Other languages