

MINING ENGINEER

MINING ENGINEERS USE THE LATEST IN INFORMATION TECHNOLOGY AND PLAY A KEY ROLE IN ENSURING A MINE'S COMPETITIVENESS, PROFITABILITY AND SAFETY.

They work with other engineers and technologists to help plan, design and build new mines. They also manage and control the activities of existing mines. Would you enjoy a career path with a multitude of options, from technical research to senior management? Mining engineering may be right for you.

JOB DESCRIPTION

AS THEY PROGRESS THROUGH THEIR CAREERS, **MINERAL PROCESS ENGINEERS:**

- **Conduct investigations** of mineral deposits and undertake evaluations in collaboration with geologists, other earth scientists and economists to determine whether the mineral deposits can be mined profitably.
- **Prepare plans for mines**, including tunnels and shafts for underground operations, and pits and haulage roads for open-cut operations, using computer-aided design packages.
- **Prepare the layout** of the mine development and the way the minerals are to be mined.
- **Consult with geologists and other engineers** about the design, selection and provision of 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.

COMPENSATION

2007 JUNIOR MINE ENGINEER
(UNDERGRADUATE DEGREE)
Average Annual Salary: **\$70,000**

SENIOR MINE ENGINEER
Average Annual Salary: **\$102,000**

WHY ARE PEOPLE ATTRACTED TO THIS CAREER?

- The opportunity to **work anywhere in Canada (or the world)**. (Relocation allowances are generally provided.)
- Opportunity to have virtually any job from **pure research to upper management**.
- Independent thought-being able to analyze a problem and then resolving issues to correct it
- **Financial rewards** for high achievers.
- **Many** potential work sites
- Opportunities for training and career advancement and **continuous learning**
- Opportunities to work with **new technologies**
- **High demand** for the best and the brightest

LIFESTYLE EXPECTATIONS

[WITH SOME POSITIONS IN SOME COMPANIES]

- **READY TO WORK SHIFTS**
- **IF MINE IS IN REMOTE LOCATION:**
 - i) Time away from family for extended periods
 - ii) Live with work colleagues on a 24/7 basis for 2-3 weeks at a time, with 2-3 weeks off between work schedules
- **MINE MAY BE IN A RURAL COMMUNITY, WITH AN OPPORTUNITY TO ENJOY THE OUTDOORS, HUNTING, FISHING, HIKING AND SO FORTH**

PERSONAL ATTRIBUTES

SOMEONE GOING INTO THIS LINE OF WORK SHOULD:

- i) Be intelligent, creative, and goal oriented.
- ii) Be a team player and communicate well with others.
- iii) Enjoy working with math, science, computers, and all things mechanical.
- iv) Be able to visualize three-dimensional layouts.
- v) Have a high level of respect for established safety procedures and regulations.
- vi) Accept challenges with patience, flexibility, adaptability, and fortitude.
- vii) Embrace new techniques and technologies
- viii) Have an ability to work under pressure
- ix) Have good time management skills
- x) Take the initiative and have pride in their work

CAREER PROGRESSION OPTIONS: MINING ENGINEER

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EDUCATION AND TRAINING

- Minimum of a Bachelor degree in mining engineering is required.
- Post-graduate degree would be desirable
- Professional Engineering designation
- For progression to senior management positions, an advanced degree is recommended

