

# MINERAL PROCESS ENGINEER

**AS WORLDWIDE DEMAND FOR MINERALS AND METALS SOARS, MORE PRESSURE THAN EVER BEFORE IS BEING PLACED ON THE EARTH'S FUNDAMENTAL RESOURCES**

Using sophisticated processes and, new technologies, mineral process engineers extract and refine valuable minerals from raw ores. They also work to protect and restore the environment. Mineral process engineers create new products from materials that were once considered waste, cleaning up the landscape while promoting economic growth. **Does this sound like a career that would interest you?**

## JOB DESCRIPTION

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

- **Plan, organize and supervise** the extraction of metallic or non-metallic minerals from the ore at underground or surface mines.
- Are person (primarily) responsible for **monitoring the flow of material through the mill**. They monitor and control the addition of chemical substances to make sure that the most mineral possible is extracted from the ore.
- May also be responsible for on-site tests/research to **look for improvements in the systems**.

## COMPENSATION

2007 NEW GRADUATE ENGINEER PLANT  
(UNDERGRADUATE DEGREE)  
Average Annual Salary: **\$57,000**

SENIOR PROCESS ENGINEER  
Average Annual Salary: **\$86,000**

## WHY SHOULD YOU CONSIDER 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
- **Financial rewards** for high achievers.
- **Many** potential work sites
- Opportunities for training and career advancement and **continuous learning**
- Opportunities to work with **new technologies**

## 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) Have a high level of respect for established safety procedures and regulations.
- v) Accept challenges with patience, flexibility, adaptability, and fortitude.
- vi) Embrace new techniques and technologies
- vii) Have an ability to work under pressure
- viii) Have good time management skills

## CAREER PROGRESSION OPTIONS: MINERAL PROCESS ENGINEER

# 1

### EDUCATION AND TRAINING

- Minimum of a Bachelor degree in metallurgical /chemical/mechanical engineering is required
- Post-graduate degree would be desirable
- For progression to senior management positions, an advanced degree in metallurgical, chemical engineering or mineral processing is recommended
- Specialized on-site training as needed

