

MECHANICAL ENGINEER

Mechanical Engineers are leading members of a mine's engineering department. They support production and minerals processing operations by working in a team that specifies, purchases, and installs specialized mechanical equipment and maintains it efficiently and safely.

Job Description

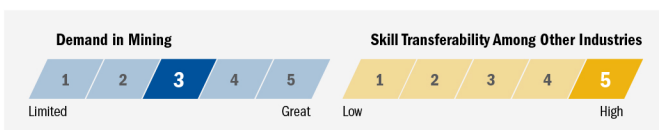
- Organize, install and operate the mechanical equipment and systems at the mine site
- Oversee the maintenance, repair and support of mechanical equipment and systems by operators and mechanics
- Prepare, check and approve calculations, documents, drawings, cost estimates and tests in compliance with quality assurance policies
- Find the causes of vibration, mechanical failures and maintenance problems
- Supervise contractors, negotiate changes, control quality, measure work done, approve and accept works
- Lead or work on a team to ensure projects are completed on time and budget
- Write reports, attend meetings, exchange information with other professionals, record and store information in compliance with legislation, regulations and company policies
- Play a leading role in ensuring safety, improving operational efficiency and quality, controlling production costs and minimizing effects on the environment
- Work cooperatively with other departments, engineering disciplines, project managers, supply chain and management 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?

Mechanical Engineers enjoy tackling a challenging variety of duties including design, analysis, problem-solving and creating systems. They appreciate the opportunity to lead a multidisciplinary team and use the latest technologies and equipment in their work, and are well compensated for their efforts.

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

Note: conditions vary according to employer and region.

Mechanical Engineers are likely based in an office on (or near) the mine site, but spend much of their time at the mine. They may be exposed to challenging working conditions and may be required to work safely in 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
- ☒ Identifies issues and priorities, and solves problems with a positive attitude
- ☒ Plans and works in a fast-paced, dynamic environment
- ☒ Ensures quality, innovative design, improved production and reduced costs
- ☒ Committed to safety and environmental protection
- ☒ Understands the mine's long term goals and assists in determining the best method to reach them
- ☒ Organized and a critical thinker
- ☒ Interested in machines, the production process, technology and Information Technology
- ☒ Strong active listening skills
- ☒ Strong communication, analytical, computer and planning skills
- ☒ 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

- A Bachelor's degree in Mechanical Engineering or related subject
- Eligible for registration as Engineer in Training
- 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

May be Required

- Specialized software skills
- Use of computer-based design and drafting using mechanical engineering and mining software
- Professional Registration, P. Eng.

Assets

- Master's degree in Mechanical Engineering or related subject
- Willingness to relocate
- Other languages