

MINING ENGINEER

ABOUT THIS JOB

Mining Engineers help plan, design and build new mines. They manage and control the activities of existing mines. Engineers are responsible for designing, implementing and coordinating all aspects of mine development and safety. They also can design, implement and monitor the development of mine facilities, systems or equipment. Mining Engineers have an extensive understanding of open pit mining, milling and maintenance operations. They should be able to provide leadership and direction to other employees, analyze data and prepare written reports that are easily understood by others, and enjoy computers, math and science.

MINING ENGINEERS PERFORM THE FOLLOWING TASKS:

- Inspect mining areas for unsafe structures, equipment and working conditions
- Examine maps, deposits, drilling locations or mines to determine the location, size, accessibility, contents, value and potential profitability of mineral deposits
- Select or develop mineral location, extraction and production methods based on factors such as safety, cost and deposit characteristics
- Prepare technical reports for use by mining, engineering and management personnel
- Monitor mine production rates to assess operational effectiveness
- Prepare schedules, reports and estimates of the costs involved in developing and operating mines
- Layout, direct and supervise mine construction operations

PREPARATION AND TRAINING FOR THIS POSITION

A high school diploma or GED, and a bachelor's degree in mining or geological engineering from an accredited college or university are required for this job. Some positions may also require an advanced degree.

EDUCATION:

- * **HIGH SCHOOL DIPLOMA OR GED**
- * **BACHELOR'S DEGREE**

