

Mining and Geological Engineers, Including Mining Safety Engineers

17-2151.00



Description: Conduct subsurface surveys to identify the characteristics of potential land or mining development sites.

Other Resources:

[ONET Link](#)

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Sample of Reported Job Titles: Mine Engineer, Mining Consultant, Mining Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's degree.

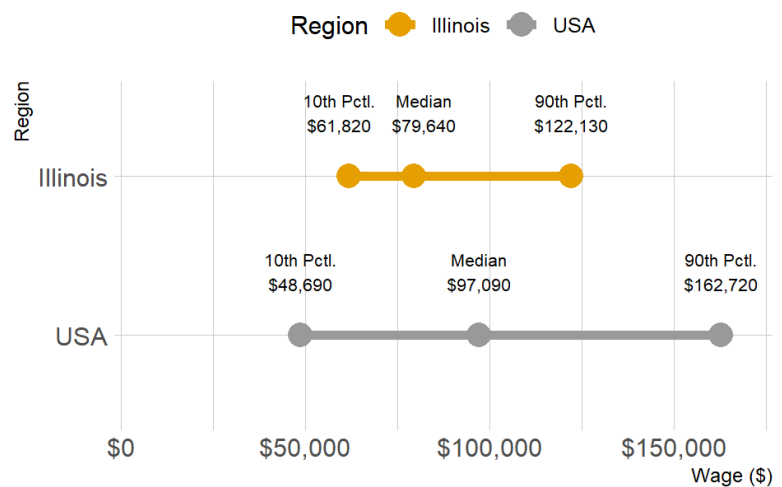
Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Core Certifications: Certified Mine Safety Professional

Hot Technologies: Autodesk AutoCAD, Carlson SurvCADD, Computer aided design and drafting CADD software, Enterprise resource planning ERP software, Microsoft Access

Region	Employment	Location Quotient	Median Wage
Illinois	100	0.35	\$79,640
USA	7,370	–	\$97,090



Top 5 Core Tasks According to Current Job Holders	Frequency	Importance (out of 100)
Prepare technical reports for use by mining, engineering, and management personnel.	More than monthly	88
Inspect mining areas for unsafe structures, equipment, and working conditions.	More than yearly	82
Select or develop mineral location, extraction, and production methods, based on factors such as safety, cost, and deposit characteristics.	More than yearly	80
Select locations and plan underground or surface mining operations, specifying processes, labor usage, and equipment that will result in safe, economical, and environmentally sound extraction of minerals and ores.	More than yearly	79
Prepare schedules, reports, and estimates of the costs involved in developing and operating mines.	More than monthly	76