

Mining and Geological Engineers, Including Mining Safety Engineers (17-2151)

Occupation description: Conduct sub-surface surveys to identify the characteristics of potential land or mining development sites. May specify the ground support systems, processes and equipment for safe, economical, and environmentally sound extraction or underground construction activities. May inspect areas for unsafe geological conditions, equipment, and working conditions. May design, implement, and coordinate mine safety programs. Excludes Petroleum Engineers (17-2171).

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	178	193	8.4	3	10	15
United States	7,300	7,900	8.2	100	400	560

Job outlook

Alaska: Alaska's employment growth is low with low employment opportunities. [Read more.](#)

2018 Wages ?

	Mean Wage	Wage by Percentile				
	Mean	10th	25th	Median	75th	90th
United States	47.32	26.23	33.79	44.35	58.67	72.61
Alaska	53.90	34.04	43.24	53.96	63.76	74.44
Balance of State	57.18	40.13	51.22	58.64	66.97	75.48

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
258	86	33.3	34.6	25.4

2016 Potential Supply

Qualified but working in another occupation	32
Currently employed in a lower paid occupation	24
UI claimants previously working in occupation	20

2016 ALEXsys Employment Data

Number of registrants	84
Number of job position postings	16
Ratio of registrants to job position postings	5.2

Alaska Licensing Information

Engineer – [View licensing requirements and number licensed](#)

Typical Entry-level Education, Experience, and/or On-the-job Training

Education: Bachelor's degree

Work experience: None

On-the-job training: None

Training Resources

ABC of Alaska (Anchorage)		Degree
Excavations		
Alaska Teamster-Employer Service Training Trust (Anchorage)		Degree
Mining Safety and Health Administration		
Center for Employment Education (Anchorage)		Degree
Mining Safety and Health		
Delta Mine Training Center (Delta Junction)		Degree
Health, Safety, and Environmental Training		
Underground Mine Training		
Northern Industrial Training (Palmer)		Degree
Mine Safety & Health Administration (MSHA) SURFACE Inexperienced Miner/054		
University of Alaska Anchorage (Anchorage)		Degree
Earthquake Engineering		GCRT
University of Alaska Fairbanks (Fairbanks)		Degree
Geological Engineering		BS
Geological Engineering		MS
Mineral Preparation Engineer		MS

Mining Engineering	BS
Mining Engineering	MS

	Degree
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University of Alaska, Mining and Petroleum Training Service (Soldotna)

Mine Safety and Health Administration Part 48 Surface New Miner	
Mine Safety and Health Administration Part 48 Surface Refresher	
Mine Safety and Health Administration Part 48 Underground New Miner	
Mine Safety and Health Administration Part 48 Underground Refresher	

	Degree
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Vocational Training and Resource Center (Juneau)

Drafting with AutoCAD	
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