

Petroleum Engineers (17-2171)

Occupation description: Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	500	480	-4.0	9	23	30
United States	33,700	38,800	15.2	700	1,700	2,910

Job outlook

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

2019 Wages

	Mean Wage	Wage by Percentile				
	Mean	10th	25th	Median	75th	90th
United States	75.37	38.11	51.45	66.21	92.99	*
Alaska	72.18	42.00	51.23	65.00	80.03	*
Anchorage/Mat-Su Area	72.62	43.36	52.36	65.24	79.30	*
Balance of State	72.12	39.77	48.48	65.71	82.70	*

* indicates the estimate is not available, or the hourly wage is greater than \$100, or the annual wage is greater than \$208,000.

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
625	180	28.8	35.6	26.6

2016 Potential Supply

Qualified but working in another occupation	85
Currently employed in a lower paid occupation	78
UI claimants previously working in occupation	57

2016 ALEXsys Employment Data

Number of registrants	127
Number of job position postings	9
Ratio of registrants to job position postings	14.1

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

Alaska Petroleum Academy (Kenai)		Degree
Cook Inlet Training Standards/24 Hour Hazwoper		
Cook Inlet Training Standards/Hazwoper Refresher (8 Hours)		
Petroleum Chemical Health and Safety (16 Hours)		
Petroleum Chemical Health and Safety Refresher (8 Hours)		

Alaska Teamster-Employer Service Training Trust (Anchorage)		Degree
North Slope Training Cooperative		

Alaska West Training Center (Fairbanks)		Degree
Hydrogen Sulfide - H2S		
Petroleum Technician - ER06		
Petroleum Workers Safety and Health - S05		
Unescorted Module - NSTC01		
Unescorted Module Update/Refresher - NSTC02		

Beacon Occupational Health and Safety Services (Anchorage)		Degree
Cook Inlet Training Standards & Industrial Safety (CITS)		Certificate
North Slope Training Cooperative (NSTC), Optional H2S/FES		Certificate

Environmental Management Inc (Anchorage)		Degree
NSTC 6 PACK + H2S Module		Certificate

Iisagvik College (Barrow)		Degree
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Industrial Safety, Level 1	Endorsement
Degree	
LTR Training Systems, Inc. (Anchorage)	
Fall Protection - Basic/Authorized	
Fall Protection -Tower Climbing & Rescue	
Degree	
Northern Industrial Training (Palmer)	
Energy Isolation - Lockout/Tag out/018	
NSTC ASH Update / 003	
NSTC Confined Space Entry / 004	
NSTC Energy Isolation / 005	
NSTC Fall Protection / 006	
NSTC Hydrogen Sulfide (H2S) Module/002	
NSTC Respiratory Protection /007	
NSTC Unescorted/001	
PEC Premier Basic Orientation / 051	
PEC Premier Core Compliance / 052	
Degree	
University of Alaska Anchorage (Anchorage)	
Earthquake Engineering	GCRT
Degree	
University of Alaska Fairbanks (Fairbanks)	
Petroleum Engineering	BS
Petroleum Engineering	MS
Degree	
University of Alaska, Mining and Petroleum Training Service (Soldotna)	
North Slope Training Consortium (NTSC)	
Degree	
Vocational Training and Resource Center (Juneau)	
Drafting with AutoCAD	