

Geological and Petroleum Technicians (19-4041)

Occupation description: Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential resources such as metallic ore, minerals, gas, coal, or petroleum. Analyze mud and drill cuttings. Chart pressure, temperature, and other characteristics of wells or bore holes. Investigate and collect information leading to the possible discovery of new metallic ore, minerals, gas, coal, or petroleum deposits.

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	382	382	0.0	11	28	39
United States	15,000	17,400	16.4	400	1,200	1,850

Job outlook

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

Wages ?

Wage data is not available.

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
536	203	37.9	28.6	20.8

2016 Potential Supply

Qualified but working in another occupation	128
Currently employed in a lower paid occupation	75
UI claimants previously working in occupation	58

2016 ALEXsys Employment Data

Number of registrants	223
Number of job position postings	63
Ratio of registrants to job position postings	3.5

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

Education: Associate's degree

Work experience: None

On-the-job training: Moderate-term on-the-job training

Training Resources

Degree

Alaska Petroleum Academy (Kenai)

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)	

Degree

Alaska Teamster-Employer Service Training Trust (Anchorage)

North Slope Training Cooperative	
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Degree

Alaska West Training Center (Fairbanks)

Hydrogen Sulfide - H2S	
Petroleum Technician - ER06	
Petroleum Workers Safety and Health - S05	
Unescorted Module - NSTC01	
Unescorted Module Update/Refresher - NSTC02	

Degree

Beacon Occupational Health and Safety Services (Anchorage)

Cook Inlet Training Standards & Industrial Safety (CITS)	Certificate
North Slope Training Cooperative (NSTC), Optional H2S/FES	Certificate

Degree

Environmental Management Inc (Anchorage)

NSTC 6 PACK + H2S Module	Certificate
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Degree

Iisagvik College (Barrow)

Industrial Safety, Level 1	Endorsement
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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, Kenai (Soldotna)

Petroleum Technology	AAS
Petroleum Technology	CT2

Degree

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

North Slope Training Consortium (NTSC)	
Surface Mine Heavy Equipment Training - MAPTS	OEC
Underground Mine Operations Training - MAPTS	OEC

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