

Petroleum Engineers

SOC: 17-2171 • Career Profile Report

■ Key Facts

<div>\$141,280</div> <div>Median Salary</div>	<div>19,600</div> <div>Employment</div>	<div>+1.0%</div> <div>Growth Rate</div>
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■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 17.0% probability of being automated in the next 10-20 years.
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

7.2/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.2/10	Investigative	8.8/10
Artistic	6.4/10	Social	5.2/10
Enterprising	5.8/10	Conventional	6.6/10

■ Top Skills Required

Analytical skills, Communication skills, Interpersonal skills, Math skills, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Petroleum Engineers typically perform the following tasks:

- Specify and supervise well modification and stimulation programs to maximize oil and gas recovery.
- Monitor production rates, and plan rework processes to improve production.
- Maintain records of drilling and production operations.
- Analyze data to recommend placement of wells and supplementary processes to enhance production.
- Assist engineering and other personnel to solve operating problems.
- Direct and monitor the completion and evaluation of wells, well testing, or well surveys.
- Develop plans for oil and gas field drilling, and for product recovery and treatment.
- Assess costs and estimate the production capabilities and economic value of oil and gas wells, to evaluate the economic viability of potential drilling sites.
- Confer with scientific, engineering, and technical personnel to resolve design, research, and testing problems.
- Interpret drilling and testing information for personnel.
- Coordinate activities of workers engaged in research, planning, and development.
- Write technical reports for engineering and management personnel.
- Evaluate findings to develop, design, or test equipment or processes.
- Test machinery and equipment to ensure that it is safe and conforms to performance specifications.
- Assign work to staff to obtain maximum utilization of personnel.
- Simulate reservoir performance for different recovery techniques, using computer models.
- Design and implement environmental controls on oil and gas operations.
- Supervise the removal of drilling equipment, the removal of any waste, and the safe return of land to structural stability when wells or pockets are exhausted.
- Inspect oil and gas wells to determine that installations are completed.
- Coordinate the installation, maintenance, and operation of mining and oil field equipment.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/architecture-and-engineering/petroleum-engineers.htm>