

**Science,  
Technology,  
Engineering  
& Math  
(STEM)  
Cluster**



*Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.*

**Data Sources**  
Bureau of Labor  
Statistics  
CareerInfoNet  
CareerClusters  
The College  
Board  
Tracer

# Petroleum Engineers

*The United States gets about 63 percent of its energy from oil and natural gas. That means that there's a constant race to find new sources of petroleum and natural gas, get them out of the earth, and process them. Today's petroleum engineers are using the latest high-tech equipment to do just that. They keep homes heated, cars running, and stoves burning.*

If you are interested in joining the race to find energy resources, a career as a **petroleum engineer** may be for you.

**Petroleum engineers search for oil and gas. They design ways to remove as much as possible from the earth and to turn it into fuel we can use.**

## **Are You Ready To...?**

- Design new equipment for oil and gas recovery
- Decide on the best way to recover oil from a reservoir
- Search for new sources of oil and gas
- Conduct research into new ways of recovering oil or gas
- Troubleshoot problems
- Keep up with new technology
- Work both outdoors and in

## **It Helps To Be...**

A fan of math and science who's fascinated by the world below the earth's surface. Many job opportunities for petroleum engineers are located outside the U.S., so this is a great career if you love to travel and see the world.

## **A Day In The Life...**

- Adhere to safety procedures
- Advise clients regarding engineering problems
- Analyze engineering design problems and engineering test data
- Assign work to staff or employees
- Calculate engineering specifications

## **Salary and Opportunity in the Austin-area**

**Median Hourly Wage: \$59.32**

*That comes out to more than  
\$123,390 a year.*

**In 2016, we had  
112 Petroleum Engineers.  
By 2026, we'll need 132.**

*Could you be one of the 20?*

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# Petroleum Engineers

## After High School...

In addition to a high school diploma, many employers look for petroleum engineers with a **bachelor's degree**.



## Top 5 Industries for Petroleum Engineers

1. Oil and Gas Extraction
2. Support Activities for Mining
3. Architectural, Engineering and Related Services
4. Management of Companies and Enterprises
5. Petroleum and Coal Products Manufacturing

For more Career Profiles, visit our website:

[http://www.wfscapitalarea.com/YouthServices/  
CareerPlanning.aspx](http://www.wfscapitalarea.com/YouthServices/CareerPlanning.aspx).

## Related College Majors

- Chemical Engineering
- Chemistry
- Civil Engineering
- Geology
- Materials Engineering
- Petroleum Engineering

## Related Industry Certifications

- Fluid Power Hydraulic Specialist
- Fluid Power Industrial Hydraulic Mechanic
- Formation Evaluation Certificate
- Petroleum Engineering Principles and Practices Certificate
- Reservoir Fluids Certificate
- Reserves and Evaluation Certificate

## Related Careers

- Chemical Engineers
- Chemists and Materials Scientists
- Civil Engineers
- Engineering and Science Managers
- Geoscientists
- Mining and Geological Engineers

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