

# Thinking about your Career path?



**THINK OIL AND NATURAL GAS**

**CHEMISTS**

**MANAGERS**

**ENGINEERS**

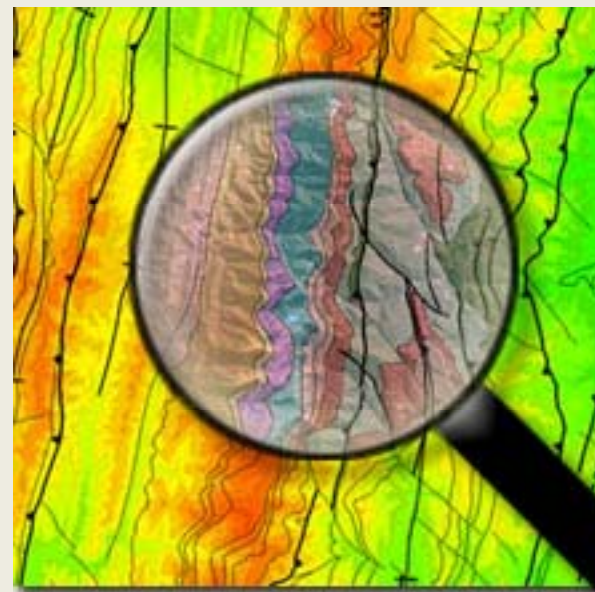
**GEOLOGISTS**

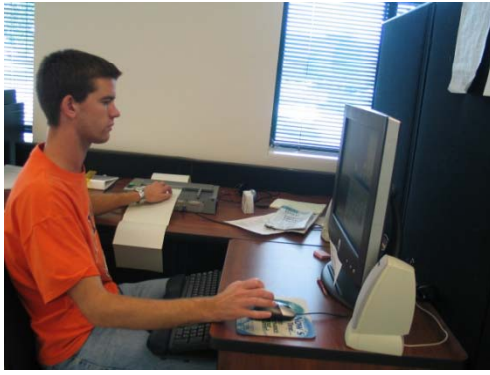
**ADMINISTRATIVE**

**DRILLING RIG OPERATOR**



**Petroleum is more than just gas. Just about everything we use comes from petroleum or uses petroleum energy in some way. The petroleum industry offers a wide-range of career choices. Take a look.**





## ENGINEERS

There are many career opportunities in the petroleum industry for engineers. Chemical, industrial, electrical, civil and petroleum engineers all play a part in the petroleum industry. Most common are petroleum engineers.

***Petroleum engineers*** search the world for reservoirs containing oil or natural gas.





## ***GEOLOGISTS***

Geologists are employed to explore for crude oil and natural gas and to help develop reservoirs. Geologists search for oil and gas by studying rock formations and using microscopes to examine rocks fragments (cuttings) from wells that are being drilled.





## ***GEOSCIENTISTS***

*Geoscientists* study the composition, structure, and other physical aspects of the Earth. Their knowledge can help companies find oil and natural gas.



The Oil and Gas ***Administrative Assistant*** performs a variety of duties in today Petroleum-related offices. They provide support to all of the engineering technicians inside the office and are responsible for gathering information for engineering techs and producing production reports, tracking safety records and booking training based on the information gathered.



**ADMINISTRATIVE**



## ***DRILLING CREWS***



Drillers are directly responsible for the drilling of the hole. They supervise other crew members and operate drilling controls.

Derrickhands handle the upper end of the pipe as it is hoisted out of or lowered into the well hole. They are also responsible of the circulating machinery and the conditioning of the drilling fluid.

Rotary helpers or roughnecks help handle the lower end of the pipe and help maintain the rig.

## ***SCHOOL***



Many schools in Illinois offer excellent programs in engineering and science to prepare you for a career in the Petroleum industry.





# *Careers in Geology*

## WHAT DOES A GEOLOGIST DO?

- Search for economic resources: Oil and Gas  
Coal  
Uranium  
Groundwater  
Precious metals  
Industrial metals and materials
- Solve problems: Earthquakes  
Volcanics  
Groundwater resources  
Construction (e.g. dams, highways)  
Physical Hazards (e.g. landslides, floods)  
Environmental Hazards (landfills,  
groundwater pollution)
- Other: Education  
Resource management (state or federal)

## WHAT EDUCATION DOES A GEOLOGIST NEED?

- Bachelor's degree is mandatory; a master's or doctorate is preferred.
- Must be strong in math and sciences.

## WHERE DOES A GEOLOGIST WORK?

- Geology today is largely an indoor job.
- The job market can be volatile; geologists with graduate degrees will have the advantage. Many geologists may change jobs several times in a career.
- Movement is common; a geologist may work in many different regions over the course of a career.

# OIL & NATURAL GAS TECH SHORT CERT



Certificate

Minimum 17.5 Hours

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Career & Technical Education • Certificate • Minimum 2.0 OGPA • Major Code: CSONT

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One Semester		Credit Hrs
ONGT 110	Introduction to Petroleum Industry	1
ONGT 111	Oil & Gas Production I	3
DSL 131	Engine Electronics	3
DSL 158	Hydraulics I	3
ONGT 112	Artificial Lift Systems	3
ONGT 113	Oil & Gas Production II	3
CPR 112	Heartsaver First Aid w/CPR	.5
SAFE 133	SAFELANDUSA™ Training	1
Total Hours		17.5

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Occupational information about this program is available at O\*NET online [www.onetonline.org](http://www.onetonline.org). Once at that website enter the SOC Code that is listed for this program.

O\*NET – SOC Code:

47-5071.00

47-5013.00

47-5012.00

47-5011.00

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**Career Opportunities:**

Roustabouts, Service Unit Operators, Drilling Operators

**Major Employers:**

Oil and Gas Companies, Drilling Companies

02/14