



## ENGINEERS

There are close to 10,000 engineers working in all parts of the upstream petroleum industry, including exploration, extraction, production and transportation. The common denominator for Engineers is that work typically involves the professional design, construction, operation, maintenance, quality control and optimization of systems critical to the exploration, production, processing and transportation of petroleum.



### How do I get there?

All professional engineering-related work requires a minimum of an undergraduate degree in a relevant discipline from a recognized university. Academic qualifications and recognized professional experience may lead to qualification for a professional engineering designation (P.Eng.) Some jobs may require this designation and provincial requirements for licensing vary.



### What would I do?

The top competencies for Engineers include:

- ▶ Engineering and technology
- ▶ Critical thinking
- ▶ Quality control analysis
- ▶ Systems analysis
- ▶ Computers and electronics
- ▶ Design



### Career Progression

Entry into this occupation usually begins at the junior or associate level, with upward mobility through intermediate, advanced, team lead, supervisory and management levels. Specialized roles may require a combination of work experience and post-graduate training.



## What careers could I have?

Careers in the engineers category of the petroleum industry include:

- ▶ Automation Engineer
- ▶ Chemical Engineer
- ▶ Chemical Process Engineer
- ▶ Civil and Facilities Engineer
- ▶ Computer Engineer
- ▶ Cost Engineer
- ▶ Electrical and Electronics Engineer
- ▶ Electrical Instrumentation Engineer
- ▶ Environmental Engineer
- ▶ Geological Engineer
- ▶ Geomatics Engineer
- ▶ Marine-related Engineer
- ▶ Materials and Metallurgical Engineer
- ▶ Mechanical Engineer
- ▶ Mining Engineer
- ▶ Petroleum Engineer
- ▶ Pipeline Engineer

EXPLORE OCCUPATIONS IN THIS CATEGORY



## How can I find out more?

The following websites can provide additional information

- ▶ Association of Professional Engineers and Geoscientists of Alberta ([www.apega.ca](http://www.apega.ca))
- ▶ Association of Professional Engineers and Geoscientists of British Columbia ([www.apeg.bc.ca](http://www.apeg.bc.ca))
- ▶ Association of Professional Engineers and Geoscientists of the Province of Manitoba ([www.apegm.mb.ca](http://www.apegm.mb.ca))
- ▶ Association of Professional Engineers and Geoscientists of the Province of New Brunswick ([www.apegnb.com](http://www.apegnb.com))
- ▶ Association of Professional Engineers and Geoscientists of Saskatchewan ([www.apegs.sk.ca](http://www.apegs.sk.ca))
- ▶ Engineers Nova Scotia ([www.engineersnovascotia.ca](http://www.engineersnovascotia.ca))
- ▶ Engineers PEI ([www.engineerspei.com](http://www.engineerspei.com))
- ▶ Engineers Yukon ([www.apey.yk.ca](http://www.apey.yk.ca))
- ▶ Professional Engineers and Geoscientists of Newfoundland and Labrador ([www.pegnl.ca](http://www.pegnl.ca))
- ▶ Northwest Territories and Nunavut Association of Professional Engineers & Geoscientists ([www.napeg.nt.ca](http://www.napeg.nt.ca))
- ▶ Ordre des ingénieurs du Québec ([www.oiq.qc.ca](http://www.oiq.qc.ca))
- ▶ Professional Engineers Ontario ([www.peo.on.ca](http://www.peo.on.ca))

## ADDITIONAL RESOURCES

Participate in National Engineering Month ([www.nem-mng.ca](http://www.nem-mng.ca)), Canada's largest celebration of engineering excellence!

Visit [careersinoilandgas.com](http://careersinoilandgas.com) to use our Career Explorer tool and find the job that suits you best!