

OIL & GAS DISCOVER THE RIGHT CAREER FOR YOU.

THE OIL & GAS INDUSTRY

IT'S YOUR FUTURE

www.oilandgas4u.com

YOUR GUIDE TO CAREERS IN THE OIL & GAS INDUSTRY



THE OIL & GAS ACADEMY



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Oil & Gas - one of the world's most important energy sources

As the global population grows and economies develop the demand for energy continues to increase. To power our schools and homes, run our cars and aeroplanes, cook our food, keep us warm, to charge our iPods and power our laptops – energy is vitally important to our lives.

The exciting challenge is meeting this demand. If you would like to be part of the solution and create more energy for **your future**, then a career in the oil and gas industry could be for you.

QUICK FACT:

> 70% of the UK's energy needs are supplied by oil and gas

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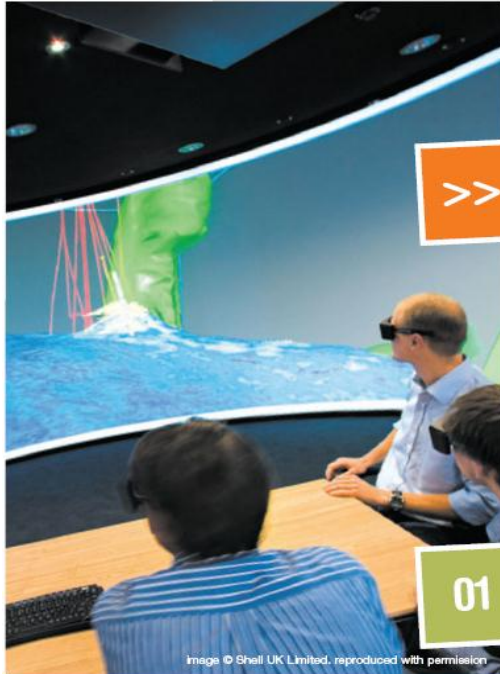


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Career Opportunities

If you are looking for a challenging and rewarding career with a unique working environment where specialist fields integrate to form a highly sophisticated, technology-driven industry...

Oil and gas could be **your future**. The range of opportunities throughout the world, from exploration, production and subsea to law, trading and IT, are almost endless:

01

finding oil and gas [exploration]

- > Exploration is the search for hydrocarbon deposits beneath the earth's crust. Scientists assess the characteristics of the earth's surface to find oil and gas reserves and determine where to drill. Some of the work includes conducting seismic surveys and analysing data to create geological models that define the properties of reservoirs. Wells can then be planned and drilled ready for extraction.
- > If you are interested in science this could be **your future**. Opportunities exist for geologists, geophysicists, petrophysicists and surveyors. There are also opportunities for those interested in mathematics, engineering and computer sciences.

02

getting oil and gas out [extraction/production]

- > Following exploration, appraisal and development, oil and gas needs to be extracted. Scientists and engineers work together to ensure they recover as much oil as possible. Activities include monitoring oilfield developments, drilling for oil, designing and maintaining the offshore facilities and pipeline maintenance.
- > If you are interested in engineering this could be **your future**. Opportunities exist for engineers from a range of technical backgrounds including mechanical, electrical, civil, chemical, instrument and control and process engineering.



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> Over 400,000 people are employed across the UK oil and gas industry

A photograph of an oil refinery at dusk. In the foreground, the back of a worker wearing a white hard hat and safety glasses is visible. The refinery is illuminated by numerous lights, and a tall distillation column with spiral ladders is prominent on the right. Smoke rises from a stack in the background against a twilight sky.

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QUICK FACT:

> Over 2.5 million barrels of oil are produced in the UK each day

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03

making oil and gas useable [process & refining]

- > Crude oil and natural gas in their raw state have limited uses, their value lies in what is created from them. Once extracted, they are transported by pipeline or ship, to a refinery where their components are processed into products like petrol, diesel and bitumen. Activities include chemical processing, process plant design and maintenance, project management and product development.
- > If you are interested in science or engineering this could be **your future**. Opportunities exist for chemists and engineers from various disciplines including chemical/process, mechanical and instrument, control and electrical engineering.



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04

innovation [research & development]

- > The future of this dynamic and constantly-evolving industry relies on innovation, technical excellence and business acumen and rewards inventive thinking. Companies are investing heavily in new products (e.g. wind and wave power), new technologies (e.g. subsea), to supplement traditional sources but are also exploring the possibilities of adapting and transferring existing knowledge to different problems (e.g. carbon capture and storage).
- > Many careers in oil and gas involve designing and applying state of the art technology to meet our increasing energy demands in a safe and environmentally friendly way. There are career opportunities across all disciplines but those with a science or engineering related MSc or PHD are highly sought after.



05

managing the business [commercial]

- > This multi-billion pound industry relies on high-calibre technical and business expertise to operate successfully. Its scale and global reach means there are almost unlimited opportunities for developing an exciting career, across a range of commercial disciplines and complex businesses.
- > If you have an interest in business, there are many commercial career opportunities including finance, trading, human resources, IT, sales and marketing, supply and logistics, and contracts and law. Whichever area you choose, **your future** will be helping ensure your company's commercial success – by operating effectively, efficiently and bringing value to customers and shareholders.

> Oil is used to produce everyday items like make-up, computer games, CD's, and clothes

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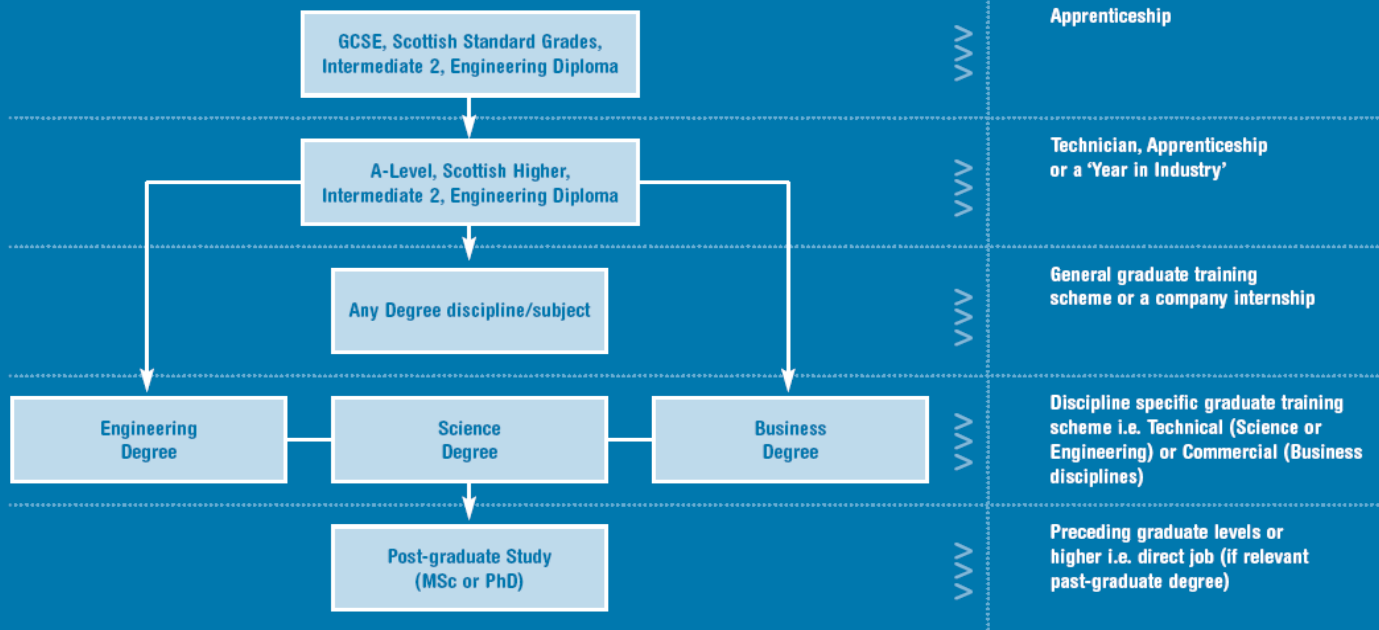
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How do I get involved?

Whether you are leaving school at sixteen, pursuing an apprenticeship, taking A-levels, Highers or other qualifications, or hoping to go on to university, oil and gas has a career for your future. Find your route in below:

Getting qualified

Joining the industry



QUICK TIP:

> Interested in oil and gas but not going to university... why not become an apprentice

Do I have the right skills?

For your future career in the oil and gas industry you will need to gain the right qualifications but also develop key skills used in the everyday workplace. Use the list below as a guide and decide how you can best develop them:

Skills	Attributes	How to improve
Oral communication/ interpersonal	<ul style="list-style-type: none"> > Speaking to people in groups as well as one-to-one > Listening and communicating with others 	<ul style="list-style-type: none"> > Get more involved in group work at school or try public speaking > If someone you know has a problem, listen to them and try to help solve it
Written communication	<ul style="list-style-type: none"> > Printed and online written work 	<ul style="list-style-type: none"> > Practise writing reports, letters and emails > Practise using computer programmes such as Word, Excel and PowerPoint
Team working	<ul style="list-style-type: none"> > Working with others to complete a task 	<ul style="list-style-type: none"> > Get involved with after-school clubs > Make the most out of group work in class
Working under pressure	<ul style="list-style-type: none"> > Handling stress that comes with deadlines and limitations 	<ul style="list-style-type: none"> > Prepare properly and learn not to ignore deadlines > Learn to expect the unexpected
Organisation	<ul style="list-style-type: none"> > Being organised and methodical, especially in work-related situations 	<ul style="list-style-type: none"> > Make a record of what you should be doing and when, e.g. write down what is expected of you for coursework or assignments.
Time management	<ul style="list-style-type: none"> > Using your time wisely and consistently 	<ul style="list-style-type: none"> > Learn to set and work to deadlines

> Internships are a great way to explore career options and develop key skills

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Start exploring your future in oil and gas today. Make sure you talk to your friends, family, teachers and careers adviser for advice and support.

Get involved with us at some of the following activities and events:

- > Energise Your Future
- > The Oil & Gas Academy PetroChallenge
- > Young Engineers and Science Clubs
- > Maths in the Pipeline

Visit www.oilandgas4u.com for more information on:

- > our activities and events
- > the range of career opportunities across the different sectors
- > recent entrants to oil and gas, from apprentices to graduates
- > links to key websites that will help with career choices

To find out more about an exciting and rewarding career in the Oil & Gas industry, contact:

OPITO - The Oil & Gas Academy
Minerva House, Bruntland Road
Portlethen, Aberdeen AB12 4QL

Telephone: +44 (0) 1224 787800
Facsimile: +44 (0) 1224 787830
Email: info@opito.com

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