Petroleum Engineering

University of Aberdeen

Venues

Old Aberdeen Campus

Content

Petroleum engineers are concerned with the design and development of front-end engineering technologies required in the exploration and exploitation of oil and gas reservoirs. Petroleum engineers also develop skills in project management & economics and environmental impact assessment. This makes them highly sought after by major energy and non-energy companies around the world with high levels of pay.

In addition to car and aeroplane fuels, there are many other common items manufactured from crude oil such as asphalt, ink, aspirin, fertilizers, toothpaste, etc. There will therefore continue to be a need for petroleum engineers in a wide variety of industry sectors.

Aberdeen is based in the heart of the North Sea energy industry and is an International Centre of Excellence for exploration and production of oil and gas.

Year 1: Principles of Electronics; CAD and Communications in Engineering Practice; Fundamentals of Engineering Materials; Engineering Mathematics 1; Fundamental Engineering Mechanics; Chemistry for the Physical Sciences 1.

Year 2: Fluid Mechanics and Thermodynamics; Process Engineering; Engineering Mathematics 2; Design and Computing in Engineering Practice; Electrical and Mechanical Systems; Solids and Structures; Introduction to Geology for Petroleum Engineers.

Year 3: Fluid Mechanics and Thermodynamics; Process Engineering; Engineering Mathematics 2; Design and Computing in Engineering Practice; Electrical and Mechanical Systems; Solids and Structures; Introduction to Geology for Petroleum Engineers.

Year 4: Geomechanics; Petroleum Production Engineering and Technology; Reservoir Engineering II: Performance; Field Development and Petroleum Economics; Individual Project (MEng/BEng); Group Design Project (BEng).

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

BEng Hons

UCAS Code

H851

Course Length

4 years

Faculty

Physical Science

Department

Engineering

Entry Requirements

2027 entry requirements

Standard entry:
4 Highers at BBBB including Maths, Chemistry and Engineering Science or Physics plus English at National 5.

Widening access entry:
Higher Maths, Chemistry and Engineering Science or Physics at BBC plus English at National 5.

1 Foundation Apprenticeship is accepted in place of a non-essential Higher.

SCQF Level

10

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

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Aberdeen City
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Website

www.abdn.ac.uk