

# 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).

Year 5: Non-conventional Hydrocarbon Engineering; Reservoir Simulation; Facilities Engineering; Enhanced Oil Recovery; The Engineer in Society; MEng Group Design.

## Start Date

September

## Qualification

Degree

## Study Method

Full time

## Award Title

MEng

## UCAS Code

H850

## Course Length

5 years

## Faculty

Physical Science

## Department

Engineering

## Entry Requirements

2026 entry requirements:

4 Highers at AABB including Maths, Chemistry and Engineering Science or Physics plus National 5 English.

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

## SCQF Level

11

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

King's College  
Aberdeen  
Aberdeen City  
AB24 3FX

## Website

www.abdn.ac.uk