

MSc

# PETROLEUM AND GAS ENGINEERING



University of  
**Salford**  
MANCHESTER



Developed as one of the first of its kind in the UK, MSc Petroleum and Gas Engineering is relevant for engineering graduates who intend to enter or enhance their career prospects in the oil or natural gas industry.

The course explores the geology, exploration, drilling, production (surface and subsurface), reservoir engineering and management, distribution and transmission of oil and gas from practical and theoretical viewpoints. With a focus on your future career, you will also develop a range of transferable skills, such as mathematical analysis, problem-solving, communications and laboratory skills.

This programme is designed to meet the requirements of the Engineering Councils Accreditation of Higher Education Programmes (AHEP)

## COURSE DELIVERY

The course is available in flexible study formats, including full and part-time pathways. This course comprises six credit taught modules, followed by a final research project.

### Modules include:

- / Petroleum Economics and Project Management
- / Geology, Exploration and Drilling
- / Fundamentals of Natural Gas and Production Systems and Design
- / Distribution, Transmission Systems and Design
- / Gas Flow and Network Analysis
- / Experimental and Measurement Methods
- / Research Project



## **COURSE EXPERIENCE**

- / Understand the variables which influence demand for products, the legal framework and economics of trading patterns for businesses in the gas and petroleum sector
- / Build specialist knowledge in gas science technology and gas processing, the liquefied natural gas industry, planning of gas supply systems, LPG technology and treatments of crude natural gas to reach accepted specifications
- / Increase your skills and technical knowledge in all aspects of gas technology and associated gas business management using our advanced facilities, which include a Petrol and Fracking Lab and Spray Research Lab
- / On completion, you may have the opportunity to join IGEM or the Society of Petroleum Engineers which may enable you to progress towards Chartered Engineer status

## **CAREER PROSPECTS**

Due to the relative uniqueness of this course in the UK, together with a high demand for graduates with the types of skills and knowledge that this course offers, employment prospects for course graduates are excellent. The course provides a gateway to professional role in industries such as petroleum, gas, process engineering, chemical or steel.





## CONTACT US

Programme Leader  
Abubakar Abbas  
A.J.Abbas@salford.ac.uk

Course enquiries  
enquiries@salford.ac.uk  
0161 295 4545

## COURSE INFORMATION

**Start Date:** September, January

**Duration:** One year full-time, two years part-time

**Location:** Peel Park campus

### Entry Requirements:

Applicants should possess at least a UK second-class honours degree (2:2) in an engineering or scientific discipline.

We also accept applicants who may not have formal/traditional entry criteria but who have relevant experience, through our Accreditation of Prior Learning (APL) scheme.

International applicants must demonstrate proficiency in English through an IELTS score of 6.0 (and no element below 5.5).