

# Petroleum Engineering

## Area of Practice / Area of Engineering

Petroleum engineering deals with four main sub-disciplines which are reservoir, drilling, production, and formation evaluation engineering. The focus is on achieving optimal integrated exploration, technical assessment, production and development of oil, gas and geothermal resources and reserves upstream of processing plants, refineries and power stations.

Some of the indicative activities that may be undertaken when practising petroleum engineering are:

- reservoir assessment
- drilling and extraction plans
- production engineering
- formation evaluation engineering.

These activities could take place in any of the following petroleum engineering domains:

- well control and maintenance
- well and casing design
- regulatory compliance
- equipment design and selection
- well testing
- reservoir characterisation and recovery estimates
- reservoir performance.

For more information on petroleum engineering, visit the [Society of Petroleum Engineers](#).

### How to apply

Petroleum engineering is an area of practice available to those who want to become Chartered and is available to all occupational categories. Learn more about becoming [Chartered](#) and how to apply.

If you want to add petroleum engineering as an additional area of practice, [email](#) us to enquire about the process.

### Registration eligibility

Petroleum engineers may need to hold statutory registration in an Area of Engineering in accordance with relevant legislation. Check the [State registration](#) page for more information.