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Chemical Engineering

Area of Practice / Area of Engineering

Chemical engineering deals with the application of physical sciences (physics and chemistry) and life sciences (microbiology and biochemistry), together with applied mathematics and economics to produce, transform, transport, and properly use chemicals, materials and energy.

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

- design and development
- environmental remediation
- evaluation of operating processes
- fabrication
- maintenance
- manufacturing
- operations
- processing
- research
- smelting
- teaching
- water and wastewater treatment.

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

- environmental
- food industry
- materials (eg ceramics, glass, metals, minerals, paints, paper, plastics etc)
- mining
- refineries
- pharmaceutical industry.

To find out more about chemical engineering visit our [Engineering communities](#) page.

How to apply

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



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

Registration eligibility

Chemical 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.