For more information about chemical engineering including case studies, job roles, study information, and links to universities and employers visit: **www.icheme.org/wnce**

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What is chemical engineering?

Chemical engineering combines the most exciting elements of science with the real world application of engineering.

It's all about change - turning raw materials into the everyday products we desire and depend on to create everything from bio-fuels to beauty products, food to fashion and everything in between. This makes chemical engineering a highly versatile and diverse career option.

What do chemical engineers do?

All engineers use maths and physics to solve technical problems, but only chemical engineers use chemistry to design and improve the industrial processes used to develop products on a large scale. Chemical engineers are sought after within industries including:

- oil and natural gas
- pharmaceuticals
- food and drink
- biotechnology
- chemicals
- energy
- water
- nuclear

Graduates can also work within other professional disciplines and have the opportunity to work all over the world.

What's biochemical engineering?

Biochemical engineering is a rapidly developing sector taking exciting scientific discoveries and developing them into cost-effective and environmentally-friendly processes. Biochemical engineers help tackle many of today's global challenges and create products ranging from the development of vaccines to protect against pandemic 'flu', stem cell therapies to cure blindness and bio-fuels from algae to provide more sustainable energy sources.

What are the benefits?

- plenty of variety and exciting challenges
- opportunities to travel
- the potential to help create a sustainable planet
- professional status – become a Chartered Chemical Engineer
- competitive starting salaries