Imperial College London

World-leading department for research and student experience in chemical engineering

Department of Chemical Engineering

RESEARCH THEMES

Biomedical engineering and industrial biotechnology
Engineering biological and biomedical systems to improve human health, and the world around us.

Energy and environmental engineering
Delivering materials, methods, processes and technologies in support of a sustainable future

Materials
Making materials matter: understanding the behaviour of materials for optimising technological processes and product applications

Multiphase transport processes
Creating the next generation of multi-scale modelling tools and measurement techniques for complex multiphase flows

Multi-scale computational chemical engineering
Computational and systems approaches for the analysis, design and optimisation of chemical, physical and biological processes across length and time scales

Separations
Developing energy efficient separations across a range of industrial applications

Reaction engineering and applied catalysis
Developing novel, clean and efficient chemical processes while minimising negative impacts on the world and its resources

Multi-scale computational thermodynamics and molecular systems
Quantative prediction of the thermophysical properties and phase behaviour of matter to provide insight into its behaviour

Soft matter engineering
Designing, synthesising, assembling, characterising and modelling soft materials for applications ranging from healthcare to energy

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MEng Chemical Engineering with a year abroad

MEng Chemical Engineering with Nuclear Engineering

Postgraduate courses

PhD in Chemical Engineering

MSc in Advanced Chemical Engineering

MSc in Advanced Chemical Engineering with Biotechnology

MSc in Advanced Chemical Engineering with Process Systems Engineering

MSc in Advanced Chemical Engineering with Materials Engineering

Our mission: To deliver world-leading research, education, leadership and inspiration in chemical engineering and its transformational application to industry and healthcare.

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