



THE UNIVERSITY of EDINBURGH
School of Engineering

Postgraduate opportunities



MSc in Advanced Chemical Engineering

The School of Engineering at the University of Edinburgh offers an illustrious master's degree in Advanced Chemical Engineering. This popular new degree spans a wide variety of topics from the fundamentals on a molecular scale to applications and processes and is advised by an Industrial Board of Experts.

At the Frontiers of Chemical Engineering Science

From carbon capture to sustainable water resources, from alternative energy technologies to advanced pharmaceutical processes, chemical engineers address the frontiers of important global challenges. A one year programme at the University of Edinburgh will immerse you in the most current developments in these fields through a combination of taught modules, workshops, a research dissertation and a number of supporting activities, with a particular emphasis on multi-scale approaches to chemical engineering from nano-scale to process scale.

A unique feature of the programme is a strong involvement of the chemical engineering industry. The programme is advised by an Industrial Board, while summer research dissertation projects are formulated and co-advised by industrial partners, with topics ranging from computational fluid dynamics for medical applications to carbon capture and storage to continuous manufacturing for the pharmaceutical industry.

Programme Structure

This programme is delivered on-campus full time for 12 months

Taught component

Core courses

- Chemical Reaction Engineering
- Computational Fluid Dynamics
- Numerical Methods for Chemical Engineering
- Introduction to Research Methods
- Molecular Thermodynamics

Plus eight courses selected from several options, including:

- Gas Separations Using Membranes
- Separation Processes for Carbon Capture
- Oil and Gas Systems Engineering
- Energy Systems
- Modern Economics Issues in Industry
- Technology Innovation & Management

Dissertation

Following the taught component, students conduct a research project over three months under the joint supervision of an academic and an industrial partner.

Careers

Graduates of this new MSc programme are well placed to find rewarding and exciting career opportunities. Our undergraduates have recently been employed with BP, P&G, Wood Group and Cavendish Nuclear, among others. We strive to give you the best career opportunities as your dissertation project is advised by an Industrial Board of Experts. Exceptional graduates may also apply to further studies within a PhD programme.

Entry Requirements

You should have a UK 2:1 degree or its international equivalent in chemical engineering or another physical or engineering science. If you have a background in another field, please contact us to determine if the programme is a good fit for you.

Tuition Fee 2017/18*

UK/EU Students: £10,800

International Students: £23,700

*Fees change annually. For the most up-to-date information about fees see: www.ed.ac.uk/student-funding/tuition-fees/postgraduate/taught-fees

English Language Requirements

IELTS Academic module 6.5 (with 6.0 in each section), TOEFL iBT 92 (with 20 in each section). For more information about other qualifications we accept please go to: www.ed.ac.uk/studying/international/english/postgraduate.

Virtual Information Sessions

All applicants will be invited to speak with academics about course content and studying in Edinburgh in our regularly-held online virtual visit information sessions.

Funding Available

Five prestigious Kenneth Denbigh scholarships available for top applicants.

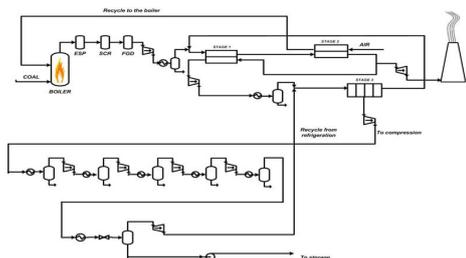
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Scholarships
[www.ed.ac.uk/
student-funding](http://www.ed.ac.uk/student-funding)

The University of Edinburgh is ranked 19th in the world by the QS World University Rankings 2016/17.

QS World University ranking, 2016/17



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