

The process Industries live or die on their safety record.

The Course

The MSc (Eng) consists of:

Nine modules of which eight need to be completed

Written assignments for each module

A three-hour written exam

A dissertation of 10,000 – 15,000 words on an industry-focused project

A Diploma is awarded for satisfactory completion of eight modules and their assignments and a three-hour written exam.

At the end of the programme, students will fully understand the following key features and support tools used in process safety:

Risk Assessment and Criteria setting

Hazard assessment tools

Hazard and Operability study (HAZOP)

Fault Tree Analysis (FTA)

Failure Mode Effects Analysis (FMEA)

Sources of chemical hazards and their impact

Safe approaches to design and operation

The role of human error and behaviour

Regulatory framework for major hazards (COMAH)

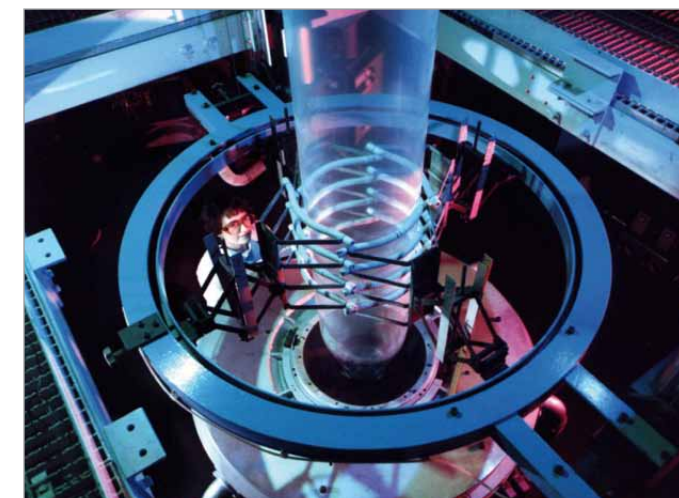
Safety Management Systems (SMS)

Safety implications of computer-controlled plants

This will enable the student to build on their, already impressive, technical skills and enhance their future career prospects.

Graduates and short course delegates have gained employment from or have been sponsored by:

AEA Technology	Health & Safety Executive
Agip UK	Hodgson Sealants
Aventis	HSE
AWE	Huntsman Tioxide
BG Group	ICI
BNFL	IRI
Bowring	Kellogg Brown and Root
BP	Lloyds Register
British Gas	Npower
Chevron	Petrobras
ConocoPhillips	Proctor & Gamble
Croda	Rolls Royce
Dista	Shanks
Dunlopillo	Shell
Eli Lilly	Syngenta
Entec	Texaco
ExxonMobil	William Blythe
Foster Wheeler	
GlaxoSmithKline	
Great Lakes Chemical	



Our City

Sheffield is England's fourth largest city. It is located roughly in the middle of England, on the edge of the Peak District National Park, about 2.5 hours by train from London. The atmosphere is laid-back, friendly. The city is compact and easy to get to know.

We love the fact that although Sheffield is a major city, and developing all the time, it has kept its sense of community. This is a friendly, safe and affordable place to make your home. Here you can enjoy sophisticated fast-paced city life and be in the middle of beautiful countryside in 20 minutes.

Our Union of Students

It's the best. Ranked joint first in the UK by the Virgin guide and winner of countless awards, our Union has live music, club nights, a 400-seat cinema, shops, an advice centre, travel agent, banks and much more. There are 165 different clubs and societies to get involved with, so you'll never be short of something to do or someone to do it with.

The University's sports facilities include a 33m swimming pool with sauna and steam room, bouldering wall, synthetic pitches, squash and tennis. You won't have to look off-campus for a high-tech gym either – we've got one of our own.

- One of the UK's safest major cities.
- Minutes away from Peak District National Park.
- The people are friendly, and the nightlife is vibrant.
- Only 2hrs by train to London.
- Central UK location makes the city an ideal base for travel.



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The Times Higher-QS World University Rankings 2008 ranks the University of Sheffield: 13th in the UK, 76th in the world.

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Accommodation

There's a great choice of accommodation so you can live the way that suits you best: catered or self-catering, city centre or leafy suburb. All of our student housing is within easy walking distance of campus and close to a frequent bus service. If you decide University accommodation is not for you, the Accommodation Office can still help you.

We can help you find private accommodation that's right for you. For details see: www.sheffield.ac.uk/housing

Our University

Founded in 1905, we have grown in reputation and size to become one of the UK's best universities with a global reputation as an international leader in teaching and research. Today, we are a premier-league, research-led institution with almost 24,000 students including over 3,600 international students from 120 countries.

We've produced five Nobel Prize winners, and many of our alumni have gone on to hold positions of great responsibility and influence around the world. A University of Sheffield graduate degree is a real investment in your future.

MSc (Eng) Process Safety & Loss Prevention

Now and in the future an increasing number of specialists are required to cope with the growing demands of regulation. Investing in training now will meet industry's needs and enhance career development.

This unique MSc in Process Safety and Loss Prevention has been developed jointly by the University of Sheffield, the Institution of Chemical Engineers and the Health and Safety Executive.

The Department of Chemical and Process Engineering has brought together leading experts from industry, the Health and Safety Executive, consultancies and the University of Sheffield to run it.

Learning is by a mixture of lectures and discussions, real-life case-studies, workshops and hands-on computer sessions that will equip the student with in-depth knowledge of current best practice in industry.

Students become members of a leading, research-active department and part of one of the largest and most successful engineering faculties in the UK. They earn a degree that commands respect nationally and internationally from industry and academia alike.

The course is flexible and modular and can be completed either in one year full-time or in two to three years of part-time study. The individual modules can also be taken as short courses.

The programme comprises nine industrially focused modules. They cover the major safety issues that affect the chemical, pharmaceutical, nuclear and oil industries today. These industries constantly strive to reduce the risk to their employees, the public and the environment from exposure to chemicals. Students will understand the legal requirements that industry must abide by and the tools and techniques that can be used to meet these.

Companies in the oil, chemical, nuclear and pharmaceutical industries have profited from choosing to enhance their employees' skills and knowledge by enrolling them on this course.

- We have brought together leading experts from industry, the UK Health & Safety Executive, commercial consultancies and the University of Sheffield to provide this degree course.
- One of the cheapest cities in the UK to live and study.
- Among the top universities for teaching quality.
- World-renowned experts in many fields, including biology and engineering.



Course Structure

The Masters degree programme can be studied over two years part-time or one year full time and requires completion of eight four-day modules, assignments and a dissertation.

The dissertation will be based on a project or topic that is of direct industrial concern. The project and dissertation are a substantial element of the Masters degree programme and are worth 60 credits.

Each module may also be taken individually as a short course.

Entry Requirements

Masters

A candidate for the Masters degree must be: A recognised graduate and have attained a standard at least equivalent to that of a good honours degree in a technological or scientific subject;

or Deemed qualified as a result of wide work experience.

Diploma

A candidate who does not have the above qualifications may still qualify for the Postgraduate Diploma. Please contact the Course Director to discuss this option.

Transfer from the Diploma to the Masters

Transfer to the Masters course is possible for those who have successfully completed 60 credits and who have received permission of the Faculty Board.

Fees and Funding

Details of the current fees are available from the Course Director. Funding may be available from EPSRC for suitably qualified full-time UK students, and partial funding may be available from the Royal Academy of Engineering Panasonic Trust for some suitably qualified part-time students.

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Further information

For further information on the course and an application form, please contact:

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An online application form is available at

www.sheffield.ac.uk/apply/pgtform.html



The University Of Sheffield.

Chemical & Process Engineering.

MSc (Eng) Process Safety & Loss Prevention.