The University Of Sheffield.

Department Of Chemical & Biological Engineering.

Undergraduate Courses In Chemical Engineering.

The Impact Of Innovation.

Introduction

Welcome to your guide to the undergraduate courses on offer in the Department of Chemical and Biological Engineering at the University of Sheffield. As well as an introduction to the Department and details of our courses you will also find information in this guide about fees, accommodation and student life in Sheffield. There are three main activities in our Department: teaching undergraduates, teaching postgraduates, and research. Since the rest of this brochure is about teaching let me say a few words about our research of which we are enormously proud. We have activities in four key themes:

- Energy and the Environment - New energy sources, energy conservation, carbon capture and water
- Fluids - Microfluidics, process fluidics and modelling
- Life Science - Biological and Bioprocess Engineering, Systems and Synthetic Biology
- Solid Materials - Particle products, smart materials and nanotechnology

Members of the teaching staff each carry out specialist research in one of these themes and you will find specialist modules in Years 3 and 4 of the MEng degrees relating to these subjects. If you stay for Year 4 of the MEng you will work in one of these areas on your own research project.

Professor Phillip Wright
Head of Department

This is an exciting time for the life of the Department. A new, Government funded, interdisciplinary Research Institute working at the Chemical Engineering Life Science Interface, ChELSI, is just now at full strength. We are extremely excited as the new space underpinned by ChELSI and Sheffield investment is opening now. This comprises state-of-the-art research laboratories but also new teaching and light and bright social spaces for the benefit of all our students. To celebrate this growth in the Department, we changed our name from The Department of Chemical and Process Engineering to Chemical and Biological Engineering. All these improvements reflect our commitment, in both teaching and research, to look to the future of Chemical Engineering to prepare our graduates to work on the important problems which, although they may not be obvious now, will, nonetheless, evolve during their careers. At Sheffield, you will find a friendly and flourishing modern environment in which to study Chemical Engineering. We can't include everything we'd like to tell you so please do look at the web pages or, even more usefully, plan to visit us.

To find out more, contact the Principal Admissions Tutor. You'll find our contact details on the back cover. I look forward to welcoming you personally to the Department if you do make that visit and we will do everything we can to help you decide whether it is right for you to choose Sheffield as a place in which to live and to study Chemical Engineering.

"I love that every student has a personal tutor; I don't know how I would have got through the first few weeks of uni without mine. If I had a question or worry about coping in a class, my personal tutor was always around to help me out. You personal tutor is your main voice in the department; they speak on your behalf and are generally quite friendly just to talk to".

Jessica Boateng

Chemical Engineering at Sheffield

Chemical Engineering applies science to the design, construction and operation of processes in which materials undergo changes; whether physical, chemical or biological. Engineering these changes effectively is necessary for the production of commodities essential to our everyday life. These include food and drink, pharmaceuticals, fertilisers, man-made fibres, plastics, fuels and energy.

These activities require processes that provide the efficient and safe conversion of raw materials into useful products. This should be achieved at the lowest possible cost, with minimum energy consumption whilst ensuring minimum impact on the environment. Chemical Engineers are involved in developing new processes, synthesising new products and optimising the performance of existing process systems. As a qualified Chemical Engineer you can choose from a wide variety of career opportunities including plant management, research, commissioning, process safety, environmental protection, process control, consultancy or sales and marketing.

At Sheffield we aim to give you a thorough understanding of Chemical Engineering by combining theoretical aspects with hands-on practical experience. This will equip you to enter and succeed in a wide range of careers and to meet the challenge of working within an ever-changing discipline.

The Department is well-placed in the heart of one of the finest Engineering Faculties in the country. We have been awarded the maximum score in the most recent Quality Assurance Agency for Higher Education Institutional Audit. We were one of only five departments selected for this audit and received the maximum score. Amongst other things, the QAA report highlighted the Department's personal tutor system, commenting that it is "well-organised" and "an example of good practice". Our teaching is reinforced by our research strengths. We have a worldwide reputation for our broad range of innovative research which is funded by a variety of sponsors in excess of £10.5m. Success in research benefits all of our students through a modern approach to our teaching and by providing additional resources. We have excellent teaching facilities and well-equipped laboratories as well as an extensive computer suite equipped with state-of-the-art software for engineering design. We encourage a friendly and informal atmosphere in the Department.

The flourishing Chemical Engineering Society organises industrial visits, an annual ball and a variety of social events throughout the year. Our undergraduates are successful in sport; they compete annually against other UK Chemical Engineering departments at the Frank Morton sports day for a national trophy.

Teaching and learning

We teach using a combination of lectures, project work, tutorials, practical instruction, industrial visits and personal tuition. In years one and two, laboratory classes develop principles learnt during lectures, introduce new concepts and provide hands-on experience of industrial equipment and instrumentation. Computer literacy is important and throughout the course you will use current software and programming languages for the analysis, design and optimisation of process plants.

Research and teaching

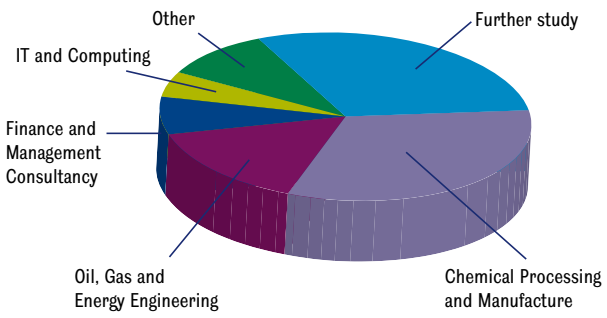
The Department is recognised for its high quality research. The latest assessment of our research shows the Department to be in the top 6 in the country for Chemical Engineering. This is reflected in our international reputation in energy and environmental engineering, particle technology, process fluidics, and biological and environmental systems engineering. All of these areas are incorporated into our undergraduate degree courses, ensuring that you are taught by staff who are at the leading edge in their fields.

Employability

"We aim to turn out fully fledged Chemical Engineers who can slot straight into industrial teams designing and operating new processes. We have good relationships with a wide range of global companies – several of these specifically target Sheffield since they like the Chemical Engineering graduates we produce."
Dr Steve Wilkinson, Careers Officer.

Graduate destinations are shown in the pie chart below. Many Chemical Engineering graduates are employed by important established sectors of the UK economy such as oil & gas, energy, chemicals, food and drink, consumer goods, water treatment etc. Chemical Engineers are also in demand by the high technology and science-led enterprises such as those finding new medicines, cleaner processes or more sustainable sources of energy.

Graduate destinations



As well as academic excellence, employers also require additional skills such as expertise in IT, team working and effective communication through reports and oral presentations. Training in these skills is woven throughout all our undergraduate degree programmes. A key part of the third year is the Design Project in which teams of around 6 undergraduates apply the principles they have learned to design an entire process safely and economically. This project is as close as possible to industrial practice – even down to the safety committee meetings to address any potential hazards arising from the new designs. Teams also make presentations of their designs for critical appraisal by the industrial partners who often help to run these projects.

The Departmental Careers Events provide opportunities for students to network with companies who are actively recruiting for full time employees, 12 month placements or summer projects. Often the company representatives are themselves recent Sheffield graduates who share their own experiences to help our students plan their own career paths.

Our undergraduate degree programmes are designed to equip you for all the challenges and responsibilities of a career in the process and allied industries. The courses develop the professional skills and mature outlook that are highly valued by employers worldwide. As a result of our extensive contacts in industry, the job prospects for our graduates are very attractive with most securing employment in this sector. Furthermore, the salaries for Chemical Engineers have traditionally been higher than those from other engineering disciplines. Our undergraduates are encouraged to join the Institution of Chemical Engineers and the Energy Institute, who accredit all of our courses. This is the first step on the road to becoming a Chartered Engineer. For further information on the role of the Chemical Engineer in the workplace we recommend that you contact:

The Institution of Chemical Engineers
www.icheme.org

The *Whynotchemeng?* campaign
www.whynotchemeng.com

The Energy Institute
www.energyinst.org.uk

BEng Chemical Engineering (H810)

In Year 1 we aim to consolidate your knowledge of mathematics and chemistry and introduce you to the principles of Chemical Engineering.

In Year 2 the basic principles are developed, particularly through laboratory classes, to emphasise practical applications. Accompanying courses are designed to extend your knowledge of computing and to provide a background in other relevant engineering applications.

In Year 3 your knowledge of chemical processes is broadened by introducing you to the topics of industrial hazards, pollution and business economics together with more advanced treatment of Chemical Engineering. A major feature of this year is the Design Project which involves working as part of a small, supervised team on the process design of a chemical plant.

"The course has exceeded far beyond my expectations. There have been industrial visits organized as well as a lot of lectures from people working in the industry. The design project conducted in year 2 has been a very enlightening experience. The course not only stresses on you being a good engineer but also an all rounder and develops your ability to work in a group effectively".

Pratik Desai

Year 1 Modules

Mathematics
Organic Chemistry
Applied Chemical Engineering
Chemical Engineering Design
Fluid Mechanics and Thermodynamics
Science for Chemical Engineers

Year 2 Modules

Mathematics
Applied Chemical Engineering
Chemical Engineering Design
Transport and Separation Processes
Chemistry for Chemical Engineers
Biochemistry
Fuel and Energy Utilisation

Year 3 Modules

Chemical Engineering Design
Advanced Chemical Engineering
Engineering Management and Economics
BEng Design Project
Environmental Protection
Crystal Science and Engineering
Process Dynamics & Control

Year 3 Options

One module from the following:

Oil and Gas Utilisation
Nuclear Reactor Engineering
Low Carbon Energy Science & Technology
Renewable Energy

MEng Chemical Engineering (H800)

The first two years of the MEng Chemical Engineering course are the same as for the BEng (H810). In Year 3 of the MEng you will follow a slightly different set of modules and begin your specialisation. Year 4 allows further specialisation and in-depth study with emphasis on an individual Research Project which may be carried out in association with industry.

Year 3 Modules

Chemical Engineering Design
Advanced Chemical Engineering
Engineering Management and Economics
MEng Design Project
Crystal Science and Engineering
Process Dynamics & Control
Environmental Protection

Year 4 Modules

Research Project
Computational Fluid Dynamics
Energy from Biomass & Waste
Research Methods in Chemical Engineering
Low Carbon Energy Science & Technology

Year 3 Options

One module from the following:

Fires and Explosions
Nuclear Reactor Engineering
Oil and Gas Utilisation
Innovation Management

Year 4 Options

Four modules from the following:

Environment - Gaseous Emissions
Environment - Particulate Emissions
Environment - Liquid Effluents
Fires and Explosions
Environmental Issues
Nuclear Reactor Engineering
Oil and Gas Utilisation
Marketing Management
Technology Strategy & Business Planning
The Professional Responsibility of Engineers

MEng Chemical Engineering with Energy (H840)

Energy is the study of all aspects of the sources, supply, processing and use of fuel. It includes the efficient utilisation of coal, oil and natural gas, the generation of electricity from fossil or nuclear fuels and the refining of petroleum. Atmospheric pollution and global warming are strongly associated with the burning of fossil fuels, and the course includes ways of reducing these problems by developing more efficient and clean combustion systems and improved power generation processes. The Department enjoys a high reputation worldwide for its work in energy and energy usage, and our graduates occupy many senior positions in this field. The first two years of this MEng course are the same as for the BEng (H810).

"I really like the fact that the department has such strong connections between each year. This is strengthened through numerous socials throughout the year, including the traditional 3 legged bar crawl in the fresher's week! The department itself has a real sense of community, with numerous communal areas".

Catriona Brownlie

Year 3 Modules

Chemical Engineering Design
Advanced Chemical Engineering
Engineering Management and Economics
MEng Design Project
Process Dynamics & Control
Environmental Protection
Oil & Gas Utilisation

Year 4 Modules

Research Project
Computational Fluid Dynamics
Environment - Gaseous Emissions
Energy from Biomass & Waste
Environment - Particulate Emissions
Research Methods in Chemical Engineering
Environmental Issues
Low Carbon Energy Science & Technology

Year 3 and 4 Options

One module from the following:

Fires and Explosions
Nuclear Reactor Engineering

MEng Chemical Engineering with a Modern Language (H8T9)

Professionals with an international outlook are in increasing demand and our degree with a modern language is a good way to capitalise on an interest in a language. This is important if you aspire to the status EurIng. The languages available within our MEng language option are French, German and Spanish. The Modern Language Teaching Centre provides language training in Years 1 and 2 in preparation for studying abroad in Year 3. We have established links with institutions in France (Lyon), Germany (Bochum) and Spain (Oviedo). You return to Sheffield for the fourth year. Special EU funding may be available through the Socrates/Erasmus programme.

Year 1 Modules

Organic Chemistry
Chemical Process Principles
Practical Chemical Engineering
Fluid Mechanics and Thermodynamics
Science for Chemical Engineers
Mathematics
Chosen Language

Year 2 Modules

Applied Chemical Engineering
Chemical Engineering Design
Transport and Separation Processes
Chemistry for Chemical Engineers
Mathematics
Chosen Language

Year 3 Modules

Modern Language Year Abroad
Year Abroad Project

Year 4 Modules

Chemical Engineering Design
Energy from Biomass & Waste
Engineering Management and Economics
Process Dynamics & Control
Environmental Protection
MEng Design Project
Chosen Language

Year 4 Options

Choose one from the following:

Fires & Explosions
Environment - Particulate Emissions
Environment – Liquid Effluents
Environmental Issues
Oil & Gas Utilisation
Low Carbon Energy Science & Technology

"I studied Chemical Engineering with a Modern Language and spent my third year at a French university in Lyon. My degree, having equipped me with both technical and language skills, enabled me to get a job working for EDF based in Paris. Afterwards, I have the opportunity to stay in France, return to the UK or possibly apply the skills I have learnt in Italy, the US or even China. A chemical engineering degree is truly a passport to the rest of the world".

Sam Barrett

MEng Chemical Engineering with Chemistry (H8F1)

This special course has been designed to provide highly skilled Chemical Engineers for the chemicals industry. This course will equip you to work at the cutting edge of chemical technology. As a graduate, you will be as comfortable working with highly functional molecules at the bench as you will be with tonne quantities of such molecules in a large-scale plant. You will be able to look forward to a career in the pharmaceutical or fine chemicals industries; the strongest parts of the chemicals sector in Europe. The first two years of this MEng course are the same as for the BEng (H810).

Year 3 Modules

Further Organic Chemistry for Chemical Engineers 1 and 2
Engineering Management and Economics
Process Dynamics and Control
Environmental Protection
Product Design Project
Chemical Engineering Design
Advanced Chemical Engineering

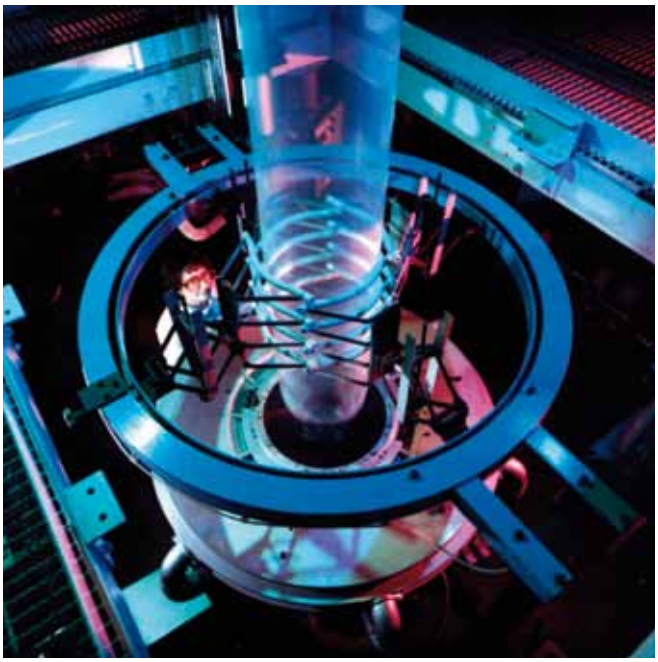
Year 4 Modules

Advanced Organic Chemistry for Chemical Engineers 1 and 2
Research Project
Environment – Gaseous Emissions
Energy from Biomass & Waste
Research Methods in Chemical Engineering
Low Carbon Energy Science & Technology

Year 4 Options

Choose two from the following:

Computational Fluid Dynamics
Fires & Explosions
Environment – Particulate Emissions
Environment – Liquid Effluents
Environmental Issues
Oil & Gas Utilisation
Crystal Science & Engineering



MEng Chemical Engineering with Biotechnology (H8J7)

This special course has been designed to provide highly skilled Chemical Engineers specifically for the bioscience industry. The first two years of this MEng course are the same as for the BEng (H810).

Year 3 Modules

Engineering Management & Economics
Chemical Engineering Design
Advanced Chemical Engineering
Practical Analysis of Biological Systems
Environmental Protection
Crystal Science & Engineering
Design Project

Year 4 Modules

Research Project
Computational Fluid Dynamics
Research Methods in Chemical Engineering
Low Carbon Energy Science & Technology
Engineering Biotechnology

Year 4 Options

Choose four from the following:

Synthetic Biology
Bio-systems Engineering & Computational Biology
Energy from Biomass & Waste
Environment – Gaseous Emissions
Environment – Liquid Effluents

Foundation year (H801)

This one year course is available for students who do not have appropriate qualifications in Mathematics or Chemistry. On successfully completing the Foundation Year you move smoothly into the first year of the undergraduate courses, either BEng or MEng. The Foundation Year is eligible for support from LEAs.

Industrial experience

We encourage all our undergraduates to gain some industrial experience through suitable employment during the summer holiday or by taking a year in industry. If you would like to spend a year in industry you have the option to do this formally as part of your degree; you will then graduate with an MEng "with Employment Experience". This will add one year to your chosen MEng degree and you will be required to pay a proportion of the fees during your year away from the University. The alternative is to take a formal year's leave from the course to work in industry. Although this will not be reflected on your degree certificate, it will be evident from your CV and you will not have to pay fees. You would usually carry out your industrial experience between Years 3 and 4.

We have an extensive network of contacts in industry, both in the UK and overseas, and will help you to secure a suitable placement. We will support and guide you if you wish to defer entry or want to take a 'sandwich' year out in industry during the course. You do not need to make any arrangements before you come to Sheffield.

Laura Weddell

I completed a year in industry between my 3rd and 4th years of Chemical Engineering at Sheffield to gain vital work experience. I gained a place on the Sellafield Ltd industrial placement scheme. Sellafield Ltd is a massive company, based in West Cumbria, undertaking various nuclear waste management operations. At first I was nervous about working with such a big company and on a site of this size, however I settled into working life very quickly. One of the main benefits of working with Sellafield Ltd was the variety of work available and seeing how Chemical Engineering skills are applied to provide innovative ideas and solutions to novel projects. Also the opportunities to go on plant visits to see the theory being applied and the scale of operations is really interesting and worthwhile.

My placement work was split into two distinct phases: I carried out an assessment of all the effluent streams associated with decommissioning work, looking for improvements against key environmental criteria. Once I had completed my study, I presented my recommendations to key stakeholders and representatives from regulatory groups. This was a real challenge due to the large scope and the many effluent streams, but it was very beneficial to my confidence and presentation skills I worked on various detailed engineering studies for new plant equipment. This gave me an insight into the different stages of the design, construction and installation of equipment and how different teams must work together to ensure the project is completed.

An industrial placement has really helped me to understand and apply the theory and skills learnt through my degree and I am confident that I will benefit from my technical and personal development when I return to university for my final year. I would definitely recommend doing some relevant work experience to enhance your employability, core skills and experience of working with professionals to see how projects progress.

Will Hay

I completed an industrial placement in the boiler modelling team at British Energy (now EDF energy). The job essentially involved resurrecting a computer code that used two phase flow models and conservation equations to model liquid flow in the boilers of the Advanced Gas-Cooled Reactors which are used in 7 of the 8 nuclear power stations in the British Energy fleet.

The main reason I would recommend a year in industry is the real-life experience you get before you graduate. My general understanding increased dramatically in the areas of thermal-hydraulics and computer programming; mainly due to the fact that I was given responsibility from day one, applying the skills I have learned from University to an industrial project, with potentially both economic and safety consequences.

I have no doubt that the project I completed in the year will stand me in good stead when I return to finish my degree. I now have genuine examples outside of my degree to represent my problem solving, organization and presentation skills which will not only bulk up my CV but more importantly give me increased confidence in interviews when I start to apply for graduate programmes.

With respect to the company and the industry, I would recommend both. It is a very exciting time for nuclear power and you can feel the buzz every day. EDF are planning to build 4 Evolutionary Power Reactors (EPRs) in the coming decades and they are looking for highly skilled engineers and scientists to construct, operate and decommission both the existing fleet and the new reactors; you could be one of them.

Accommodation

University accommodation is not just somewhere to eat, sleep and study. We think it should be a comfortable, safe setting for you to live in, with a supportive, close-knit community around you. Our accommodation and the services we offer are designed with this in mind. We want you to make the most of your experience, that's why flexibility and choice are at the heart of everything we offer. Whether you choose city or village living, catered, self-catering or a mixture of both, the same high standards of facilities and support are available to you.

With a range of catered and self-catering properties in the leafy suburbs to the west of the city, the Endcliffe and Ranmoor Villages offer an exciting student living experience. This is the ideal place to settle in to university life and to make new friends. There are plenty of cycle storage facilities and a specially designed cycling and walking route to the University. Buses run to campus and the City centre about every 10 minutes. Parking is extremely limited so we do not recommend you bring a car.

In 2009 the University of Sheffield completed its £160 million Student Residences Strategy, leading the way in developing modern student accommodation in the UK. We offer accommodation at three distinct locations, each offering a different student experience. As part of the development the Endcliffe Village was opened in 2008. "The Edge" is the stylishly-furnished focal point of the Endcliffe Village and is open to all students. It is a modern building in the heart of the village with a dining room, bar, café, support facilities and 24-hour IT space and launderette. The Ranmoor Village is the newest accommodation (opened in 2009) and is home to around 1,000 students living together in a mix of brand new apartments and studios, all of which are en-suite. In addition, The University also has properties in the city and central campus area. These are self-catering in a range of modern purpose-built apartments. You have the benefit of being close to campus for lectures and the Students' Union, as well as having all the city attractions right on your doorstep.

In addition to University owned/managed accommodation, Sheffield has a good supply of private rented accommodation, including self-contained flats/studios, houses suitable for groups of friends wishing to move in together, accommodation with a resident owner and accommodation for student families/couples. Accommodation and Campus Services maintains a private sector registration scheme of private flats and houses which have been inspected and meet the standards of the Sheffield Responsible Landlord Scheme.

Full details of all University owned accommodation is available in the "Home from Home" booklet, sent to all offer holders in the Spring, along with application forms. For further information please visit: www.sheffield.ac.uk/housing

Living in Sheffield

"Sheffield is a great place to be...you'll soon realise why we're so proud of our city. We just love it. What's more, we're pretty sure you will too. Electrifying entertainment, exciting events and astounding attractions are bound to get you hooked. Or maybe you'll fall for our parks and woodlands. After all, we're five miles from the glorious scenery of the Peak District National Park. You're certain to find something to tempt you here in Sheffield...even if it's just the warm Yorkshire welcome."

This is how Sheffield City Council describes living in Sheffield, and plenty of people would agree. A higher proportion of students stay on here after graduation than in any other city in England. It is the fifth largest city in the United Kingdom, and has been identified as a "core city" by the Government, one of seven cities on which the wealth and wellbeing of the whole nation depend. The different parts of the city tend to see themselves as villages, and the topography encourages this – Sheffield is built on seven hills!

It is a city that is still looking for an identity, following the demise of much of the steel and mining industry, but all around there are signs of regeneration and the emergence of a new Sheffield, based around information technology and with a growing reputation for design and new media. Sheffield is the world centre for the manufacture of medical instruments, and there are many small, high-value medical firms in the city.

Local theatres and music festivals are of international quality, and under recent directors, the Crucible Theatre has attracted major actors of international reputation. The City Hall has recently been refurbished as a major international venue for concerts, musicals and lectures.

Also in the city's cultural quarter are the stunning Millennium Galleries, where Sheffield's steel tradition is celebrated alongside contemporary arts. These galleries and the Graves Gallery sit alongside the Winter Gardens, a little bit of jungle in the middle of the city.

Sheffield, of course, boasts two major football teams. But the sport on offer is more varied: a major league basketball team (the Sheffield Sharks) play at the Arena; the Steelers provide home interest in ice hockey; and the Crucible Theatre plays host to the snooker world championships each spring. The city also hosts some of the key resources for teams preparing for the 2012 Olympic Games.

Nearby Meadowhall provides a wide range of shops all under one roof and is a short tram ride away from the city centre. The major high street stores as well as many others are all within a few minutes walk from the Department.

The Students' Union and sports facilities

Going to university is the time to get involved and try something new... and it's not all about long lectures and nights out clubbing. Voted the Best Students' Union in Britain by the Virgin Alternative Guide, students at Sheffield enjoy unparalleled facilities and services. The Union offers you a wealth of options to get started. Over 200 sports clubs and societies, along with the innovative "Give It a Go" programme, which allows you to try an activity out without having to join a particular society or sports club, ensure that there's something for everyone here. The building is not just about the bars, clubs and societies; there are also several vital services including banks, travel agency, convenience store and an advice centre.

The University of Sheffield Sports Clubs cater for an extensive range of sporting interests and abilities. All 48 sports clubs are managed and operated by U Sport, a unique partnership between the University and the Students' Union. Whatever level of sport you wish to be involved at we have fantastic opportunities for you including international, national, regional and local competition to Intra Mural Sports and Give it a Go – just to keep you fit and healthy. Goodwin Sports Centre is home to S10health, a state-of-the-art fitness centre with 150 pieces of equipment over two floors; the swimming pool, a 33m indoor heated pool with a sauna and steam room for relaxation; and The Matrix, one of the largest fibreglass moulded bouldering walls in the country which contains several features and is designed to suit a range of abilities providing excellent training for climbing in the Peak District.

One of the University's most important objectives is to encourage in our students a commitment to personal growth, self - improvement, enterprise and life skills development – contributing to the distinctive qualities of the typical Sheffield graduate. The Sheffield Graduate Award is a great way to prove that you too are a distinctive Sheffield graduate. It recognises valuable skills and experience gained at university outside your degree course. By giving you experience in areas including enterprise, work experience, community volunteering and international relations, it proves that you are not only academically competent, but someone whose mature, outward looking and positive outlook will be a real asset to any organisation.

Find out more by visiting:

Students' Union
www.sheffield.ac.uk/union
Sports activities
www.sheffield.ac.uk/usport
Graduate Award
www.sheffield.ac.uk/thesheffieldgraduateaward

As a student in the Department of Chemical and Biological Engineering at the University of Sheffield you will have easy access to all the University, Students' Union and city centre has to offer.

"There is always so much going on; activities during the day for every, and any, special occasion, there are club nights most nights of the week. You can get involved with any society you could wish for, and you can get involved in the local community as well".

Rhiannon Griffies

Admissions

Direct entry

Direct entry to our courses requires the equivalent of three A-Level passes at grades AAB, including mathematics and chemistry. A suggested third subject may be physics, engineering science or biology, but other subjects are accepted and include general studies. Equivalent qualifications such as the Engineering Diploma (with minimum grade B in A-Level mathematics), Scottish Highers, Irish Leaving Certificates, the International Baccalaureate, AS-Levels, advanced GNVQ and BTEC qualifications are also accepted, as are a range of overseas diplomas and certificates. You can contact us directly to discuss your particular qualifications.

How to apply

You should apply through UCAS using a UCAS application form. Speak to your Careers Advisor or visit www.ucas.ac.uk

Your application is assessed by the Admissions Tutor who considers the subjects that you are studying, any qualifications you have already obtained, your personal statement and the Head Teacher's/Principal's reference. You will be applying for one of 40 places that are typically available in the Department each year.

Visits to the department

We strongly encourage all applicants to visit the Department. We organise a programme of visits each year between November and March to which all applicants will be invited. This is an excellent opportunity to find out more about your particular course, the Department and the University. You will also meet current students, several members of staff and enjoy tours of the Union, Sports Centre and Endcliffe Student Village.

You can get further details by contacting the Admissions Tutor at the address on the back cover.

Every effort is made to ensure that the information in our publications is accurate. However, courses, modules and fees are subject to continual review. There may be some changes between the date of publication and the start of your course. For the latest information, please see the Department web pages, or contact the Department direct.

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