



The
University
Of
Sheffield.

Department Of
Materials
Science &
Engineering.

Undergraduate
Courses.

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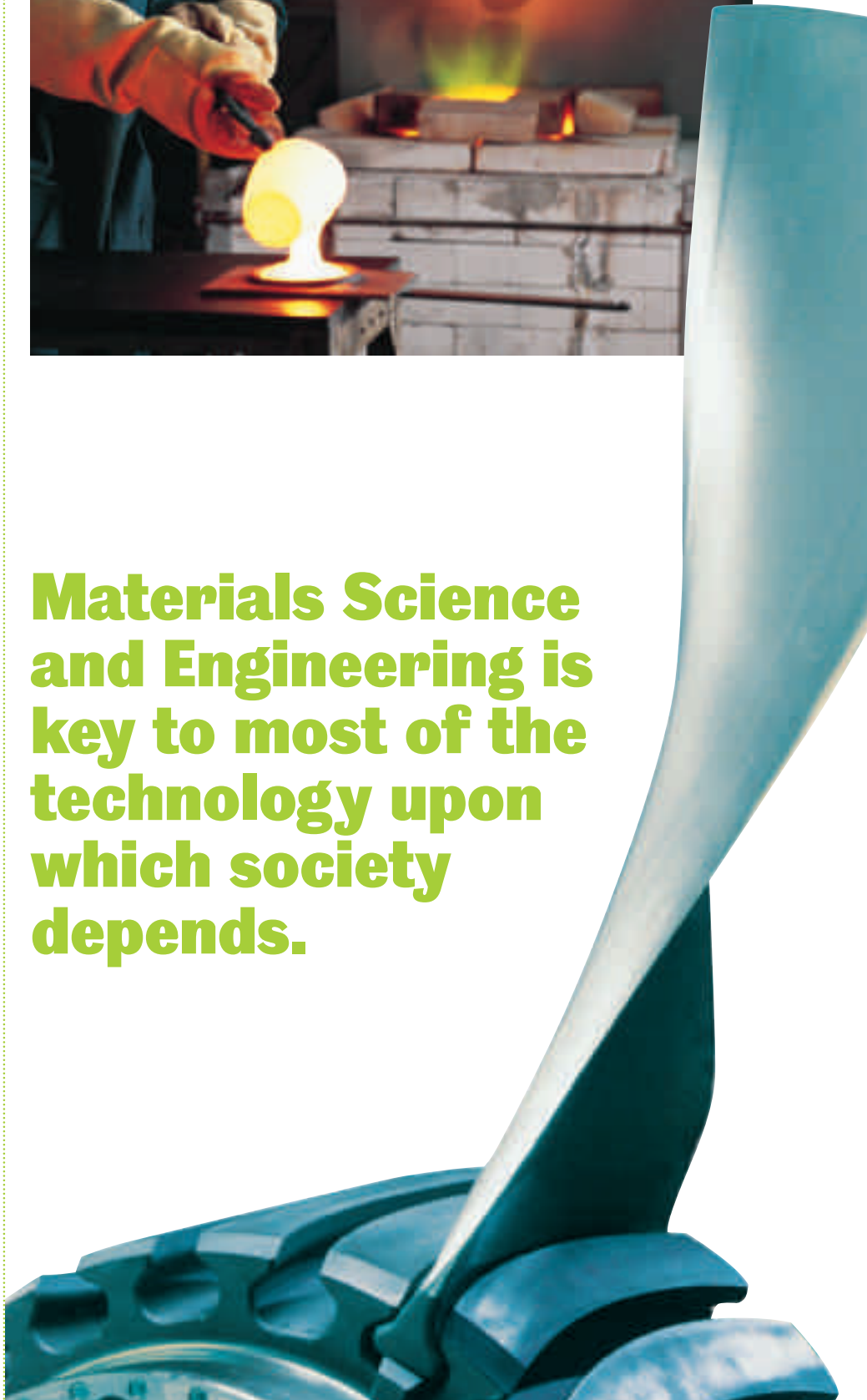
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Materials Science and Engineering is key to most of the technology upon which society depends.





What is Materials Science and Engineering?

Materials Science and Engineering is key to most of the technology upon which society depends. It covers areas ranging from lightweight alloys for aircraft to semiconductors for PCs, photovoltaics for energy generation, superconductors for whole body scanners in hospitals and implants for human body repairs.

Materials scientists and engineers are employed in the areas of materials design, materials performance and materials selection, tailoring the properties of materials to meet design requirements in a wide range of engineering contexts. To do this, they apply their understanding of how composition and processing conditions affect the structure and properties of materials. Some develop sophisticated computer modelling programs to help them predict the outcome of changes to these variables.

The demands for miniaturisation, reduction of environmental impact, replacement body parts, smart materials, information technology, changes in the built environment and transport all influence materials development. By studying Materials, you can be part of this vital and dynamic process.

What do materials scientists and engineers do?

A degree in Materials Science and Engineering will equip you for many different careers in a wide range of industries and professions, from Research and Development to Process Engineering on a large industrial plant.

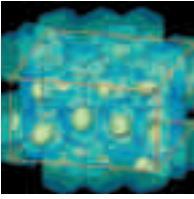
Some of our graduates go on to work with materials producers, such as glass or composites manufacturers. Others gain employment in a materials-user industry, such as the automotive industry, telecommunications or the sports equipment industry. Our graduates are also employed in related industries, such as food processing, forensics, environmental engineering, teaching, sales and finance.

After graduation, many take on increasing managerial responsibilities, with some going on to become company directors. Others progress to become specialist consultants as they gain experience.

Our courses help you develop many transferable skills, including

- Good analytical and problem-solving skills.
- The ability to apply scientific understanding and engineering principles to large and smaller scale processes.
- The ability to work effectively in a multidisciplinary team.
- The ability to manage projects, people, resources and time.

For more information about graduate destinations, see "Where are our graduates now?" (Page 8).



“The Department of Materials Science and Engineering has a reputation for excellent teaching”

Why choose to study Materials at The University of Sheffield?

Strong teaching record

The Department of Materials Science and Engineering has a reputation for excellent teaching, and was awarded 22 out of a possible 24 in the latest HEFCE teaching quality assessment. Our 2007 Accreditation Report from the Institute of Materials, Mining and Minerals noted that ‘The department is “very active, well respected in the Faculty, and University at large”’.

Teaching on our courses is mostly carried out by full-time academic staff, with occasional lectures contributed by visiting industrialists.

Accredited programmes

Our Materials Science and Engineering degree programmes are accredited by the Institute of Materials, Minerals, and Mining. This facilitates progression to Chartered Engineer status (CEng) if you enter a Materials-related profession after graduating.

International reputation

The University of Sheffield has a strong international reputation. In the last national Research Assessment Exercise in 2008 the department was rated as one of the leading departments in the country with all its research activity rated as being

“recognised internationally in terms of originality, significance and rigour” or above. Our academic staff are regularly invited to give keynote lectures abroad, publish extensively, and hold key offices in international organisations. This means that you are taught by academic staff who are at the cutting edge of their particular field.

We are also particularly proud of the quality of our graduates, many of whom have received national honours, for example:

Michael Robinson, 22, who graduated from the department in July 2009, received the **Morgan Crucible Award for Best Materials Student** at the **2009 Science, Engineering & Technology Awards** for his project on High-Speed Machining of Aerospace Titanium Alloys supervised by Dr Martin Jackson. Michael has now started on the Engineering Professional Excellence Graduate Programme at Rolls-Royce. Michael said: *“It was a real honour to receive such a prestigious award, particularly having been competing against students from other top universities in the country.”* My final year project produced some really original

research and will form the beginning of much further work into the area. I think the achievement shows the strength of the Materials Science and Engineering Department at The University of Sheffield, both in terms of teaching and research.”

Excellent resources

Our high level of research funding provides excellent resources that are used by undergraduate students as well as postgraduate students and staff; for example, our second year undergraduate students use scanning electron microscopes, and state-of-the-art testing and other characterisation machines for practical classes, and our final year students have access to the latest technology for their final year research projects.

Friendly atmosphere

Our latest Accreditation Report noted the ‘good rapport’ between students, academic and technical staff, and the good ‘sense of community’ within the department. The Turner Museum, a nationally recognised glass museum, is located in the department, providing a departmental cafe and a pleasant environment for a break. It encourages our students to socialise and creates a relaxed but stimulating atmosphere.



What courses are available?

We offer Materials Science and Engineering courses leading to either BEng or MEng qualifications, involving three or four years of study respectively. We also offer the opportunity to take a specialised MEng course in Metallurgy. Some of our students study Materials Science and Engineering with a Modern Language, or Materials Science with Industrial Management courses. This involves taking either management modules, or language modules in French, German, Italian or Spanish throughout the course, as well as a work placement in the case of the MEng degree courses. One recent addition to our portfolio is the Materials Science with a Year in Japan course, which provides a unique opportunity to spend a year in Japan in industry or at a research institute. Our popular Aerospace Materials courses provide our students with the necessary skills to work at the interface between science and engineering, and help contribute to the aerospace industry of the future.

If you wish, you can also spend one or two semesters studying at a foreign university on the Erasmus exchange programme. (This opportunity is available to students on all our Materials Science and Engineering courses).

Alternatively, if your entry qualifications are not in the required subjects, Materials Science and Engineering with a Foundation Year will get your Maths, Physics and Chemistry up to speed before you begin your Materials Science and Engineering course.

Materials Science and Engineering courses



Course title	Qualification	UCAS code
Materials Science and Engineering	MEng	J500
Materials Science and Engineering	BEng	JH51
Materials Science and Engineering (Biomaterials)	MEng	JH5P
Materials Science and Engineering (Biomaterials)	BEng	JH56
Metal Science and Engineering (Metallurgy)	MEng	J200
Materials Science and Engineering with Industrial Management	MEng	FH21
Materials Science and Engineering with Industrial Management	BEng	FHF1
Materials Science and Engineering with a Year in Japan	MEng	JH5C
Materials Science and Engineering with a Year in Japan	BEng	JH5D
Aerospace Materials	MEng	H403
Aerospace Materials	BEng	H401
Materials Science and Engineering with a Modern Language	MEng	J5T9
Materials Science and Engineering with a Foundation Year	BEng/MEng	J501

All of these courses lead to classified degrees with Honours.

BEng or MEng^P

Our courses leading to BEng or MEng qualifications involve three or four years of study respectively. The first two years of study are common to both routes. This means that, regardless of which route you register for initially, you can defer making your choice about which qualification to study for until the end of the second year. The entry requirements for the MEng route are higher than for the BEng route. However, if you register initially for the BEng degree course and do well in your first two years, you can transfer to an MEng course. The advantages of the different routes are

BEng (three years):

The BEng course provides the quickest route to graduation, enabling you to gain employment or progress to higher degree studies one year earlier. You can then acquire the industrial/research experience and undertake the further study needed to gain CEng (Chartered Engineer) status once you begin employment.

MEng (four years):

The MEng course includes extra, higher level courses and provides problem-solving and group project exercises with some management emphasis.

This course includes a five-month work placement starting in April of the third year.

The MEng course provides faster progression to CEng (Chartered Engineer) status after graduating. This is because you will meet some of the industrial training requirements of the Engineering Council on your work placement and all academic study requirements are covered on the course.



“We provide you with a solid basis in the underlying science, taught in a stimulating intellectual environment.”

Specialised Materials courses

As well as our MEng and BEng courses in Materials Science and Engineering, we also offer the opportunity to take a specialised MEng course in Metallurgy. This course shares a common first and second year with the Materials Science and Engineering courses. As long as you do well in the first two years, you can also make the decision to specialise in Metallurgy at the end of your second year.

The broader approach widens your employment options; specialist firms will also employ graduates with a general Materials training. You will also appreciate better the options available for a particular engineering application and understand the advantages of using certain materials in combination.

Alternatively, you may develop a strong interest in one subject area and we encourage this approach too. If you are planning a research or production career where knowledge of a particular product, process and its development is required, your specialism can give you an advantage over the broad-based student.

Materials Science with Industrial Management

Our Materials with Industrial Management course incorporates business modules in each year of study. They aim to meet the increasing demand for graduates who are highly trained and experienced in both management and materials issues.

Materials Science with a Year in Japan

This course will give you a sound knowledge and understanding of

Japanese language and culture, as well as the intellectual and professional skills needed to contribute in one of the world's largest business markets. An integral part of this course is the opportunity to spend a year in Japan working in industry or at a research institute.

Aerospace Materials

This course will provide you with the technical knowledge and skills needed to work at the interface between pure science and engineering, develop new materials, and new technologies, and contribute to the international aerospace industry of the future.

Materials Science and Engineering (Biomaterials)

This new course, due to launch in 2011, develops an understanding of both materials engineering and human anatomy, physiology and cell biology. This understanding is developed in the context of applications in both research and in industry. There is a clear demand for graduates skilled in the field of biomaterials science and engineering. This course provides a broad-based training for industry, which is nonetheless a suitably detailed background for students wishing to pursue research.

Materials Science and Engineering with a Modern Language

Each year of the Materials with a Language course offers an opportunity to develop your language skills. The languages studied are French, German, Italian or Spanish. The course structure is basically the same as our standard MEng programme in Materials. The difference is that you study extra language modules. Your work placement in Year 3, an integral

part of the MEng course, is in a country appropriate to your choice of language. This degree is offered as a four-year MEng course only, to ensure sufficient time for language teaching.

Materials Science and Engineering with a Foundation Year

If you have academic qualifications at the right level but in the wrong subjects, we can offer a Foundation Year course to get you up to speed in all the underpinning sciences. The Foundation Year is part of your degree course and gives you access to all the same University facilities as other first year students.

On successfully completing the year you can enter any of our mainstream undergraduate courses.



What do our courses involve?

Our courses are all about giving you the ability to tackle situations that materials scientists and engineers encounter on an everyday basis.

We provide you with a solid basis in the underlying science, taught in a stimulating intellectual environment, and we use a hands-on approach and exposure to real situations to give you a good understanding of practical applications. Case studies, design projects, group industrial projects, laboratory work, manufacturing plant visits and tutorials are central to your development as a scientist and engineer.

We aim to develop your skills in knowledge acquisition, research, IT and written and oral communication, and to equip you for lifelong personal development in a stimulating and satisfying career.

Where are our graduates now?

In recent years our new graduates have begun their careers with companies such as Pilkington, Airbus, Rolls-Royce, Sheffield Forgemasters, Corus, Morgan Ceramics, and TWI. Others have gone into teaching, the army and the police. Many others choose to continue their education by taking taught Masters degrees, Knowledge Transfer Partnerships, or PhDs.

The range of possible career paths open to materials scientists and engineers is as wide ranging as the subject itself.

First and Second Year course structure:

Examples of some of the modules taken in the first and second years of our Materials Science and Engineering courses are given below:

Introduction to Materials Chemistry (Year 1)

The aims of this module are to develop a qualitative and quantitative understanding of crystal chemistry and molecular structure for both small and macromolecules and to demonstrate the application of crystal and molecular structures to materials problems.

Introduction to Materials Engineering (Year 1)

This module introduces students to the mechanical behaviour of both hard and soft materials, including natural materials. The module will emphasise the links between the microscopic behaviour and the macroscopic performance of materials.

Introduction to Materials Properties (Year 1)

This module considers materials properties as the link between what is done to a material and how the material responds and hence discusses linking properties to devices and structures. Topics covered include the behaviour of magnetic, electrical and optical materials.

Biomaterials (Year 1)

This module introduces the human body from an engineering perspective; looking at it as a structure, a mechanism and a sensor. It then introduces both natural and replacement biomaterials discussing properties in relation to function using Ashby charts. Finally, the course discusses lessons that can be learnt from biomaterials by materials engineers in general (biomimetics).

Deformation and Failure of Materials (Year 2)

This module describes the plastic deformation of metals, polymers and glasses indicating the fundamental

mechanisms that give rise to sample strain in response to applied stress or arising from thermally induced effects. The deformation mechanisms are related to microstructure and processing and the implications for design considered.

Industrial Materials Processing (Year 2)

This module provides a broad overview of the main industrial processing and manufacturing routes for metallic, glass, ceramic and polymeric materials and components. Important engineering principles such as viscosity, heat transfer and fluid flow will be introduced where relevant and a number of case studies will be used in order to highlight the equipment, technology and philosophy behind the choice of process and manufacturing route for these materials.

Advanced Mechanics and Selection of Materials (Year 2)

This module aims to build a comprehensive understanding of the interrelationship between materials selection, materials processing, product design and product performance in order to develop a holistic approach to optimum selection of materials for engineering and industrial applications.

Practicals and Transferable Skills

Materials Science is a very hands-on discipline and you will have two or three laboratory sessions per week in the first and second years. Each module will have a number of laboratory practicals associated with it, and in these you will build on what you have already learned in the module, as well as learning about experimental design and techniques, and data analysis.

In the first semester of Year 1, you will take part in Skills Week. This involves two industrial visits, a number of workshops aimed at developing transferable skills, seminars given by

the Institute of Materials, Minerals and Mining, and the UK Centre for Materials Education amongst others, and a group activity involving problem solving, presentation skills, communication and teamwork. Here's what some of our students have to say about Skills Week

"Skills Week made the course more relevant and allowed me to see where my degree would fit into a career."
Caroline Gabbott

"I feel I have really benefitted from Skills Week in terms of information received and skills developed. I definitely think it was a worthwhile experience and I really enjoyed it."
Alys Davies

Optional modules

Each academic year is split into two semesters and carries 120 credits overall. Depending on which course you are taking, you may have some options to choose from. You may select options from this department (on Nanomaterials or Materials and the Environment) or from other departments (eg Philosophy, Management or Modern Languages). If you wish, you can also spend one or two semesters studying at a foreign university. This does not increase the length of your course because you continue to study Materials while you are abroad. This opportunity is available to students on all our Materials courses. See 'Travel Abroad' (page 12) for more details.



Third and Fourth Year course structure

The structure of your third year depends largely on two important choices made at the end of the second year: whether to take a three-year BEng or four-year MEng degree (see page 6), and whether to specialise (see page 7).

For either route you undertake a Final Year Research Project, which is worth a quarter or a third of the final year marks and involves approximately one and a half days work per week for 20 weeks. The Final Year Project is your chance to use some of this department's world-class research facilities. It allows you to spend time studying a topic that particularly interests you and gives you hands-on experience in advanced research techniques, such as:

Materials Processing – for example, synthesising electrically conducting polymers or manufacturing glass-polymer composites; Materials Characterisation – using, for example,

an electron microscope or X-ray diffraction – or testing the optical, electrical, mechanical, or magnetic properties of a novel material.

Third and fourth year lecture courses include advanced classes in materials modelling, as well as metals, glasses, ceramics and polymers. The MEng course also includes a 12 week group industrial project, and case studies as well as a five-month work placement.

Five-month industrial placement (MEng only)

By April of the third year you are ready to carry out your paid industrial work placement. We can help by providing you with the contact details of companies in the UK or abroad who are happy to employ our students. We expect you to be able to carry out a useful project or assignment for the company. Placements are usually highly successful and our students frequently warrant glowing praise from their employers.

One of our recent graduates, Andrew, carried out a placement at TWI in South Yorkshire. He says, "I greatly enjoyed my placement for the variety of jobs and tasks that I was able to undertake, which has benefited me greatly. It also gave me a valuable insight into working with materials in a professional environment as well as the running of a global business organisation."

We continually update our courses to reflect the latest developments in the subject. For more detailed and up-to-date information on course content, including full module descriptions, please visit our web pages: www.sheffield.ac.uk/materials/

Industrial liaison, sponsorship and awards

We encourage you to think about your eventual career aims and to take every available opportunity to develop your transferable skills. With this goal, companies and industrialists are actively involved in teaching our courses. Their input includes presentations on current topics and hosting visits to manufacturing plants and research centres. We encourage you to go to technical lectures organised by local branches of the national Materials organisations and we subsidise attendance at their annual dinners. We also support student membership of the Institute of Materials, Minerals and Mining, the IoM3. The Institute provides valuable help with professional development as well as technical information.

The University Careers Service provides an integrated guidance, vacancy information and work experience service for current students and recent graduates of the University.

Vacation work

Relevant summer vacation work provides you with a breadth of experience and skills that are attractive to employers. The University Careers Service advertises summer work vacancies and we can provide you with the contact details of companies seeking to recruit Materials Science and Engineering students. The MEng course involves a five-month placement of paid industrial training, and a few students take a year out in industry. We can help to arrange placements both in the UK and abroad. In addition, some final year projects can be undertaken with industrial partners, and many of our students have been offered employment after graduation, partly as a result of a successful project.

Sponsorship

Several firms and trade organisations are willing to sponsor able students whose long-term goal is a job in industry. Sponsorships involve a bursary and paid vacation work

experience. Some are available from Year 1 but if you do not wish to commit yourself initially you may also receive offers in later years. Continuation usually depends on satisfactory progress. Henry was sponsored by BNFL: "Sponsorship has given me an opportunity to get involved with a company and learn much more about what they do and how they do it – hopefully making my first job easier to find. It also pays well! A bonus to get me through the year!"

Awards

If you enter our courses with high academic qualifications, you may be eligible for a First Year Entrance Bursary. More information about Entrance Bursaries is included in our accompanying literature, or you can ask any member of our admissions team. Our contact details are on the back of this brochure.

Our department and the Engineering Faculty are well endowed with prizes for students at each level of the course.



Hui Zheng who graduated in 2010 is seen receiving an award from Professor Allan Matthews, the head of department.



Student life

University life presents countless new opportunities. Here are some of the possibilities for broadening your horizons during your time at University.

TRAVEL ABROAD

Our courses provide you with numerous opportunities to travel abroad. For example, we have exchange schemes with an American university and with universities in France, Spain, Portugal, Finland and Austria. An exchange can be for one semester or a whole year without increasing the length of your course because you continue to study Materials while you are abroad. Students from our partner universities join our courses in Sheffield and you have the opportunity to enhance your cultural experience by meeting them.

The exchange to Alfred University in New York State, which specialises in Ceramics and Glasses, is particularly popular. Some travel bursaries are available to support this. Robert spent his first semester of the second year at Alfred University. He says, "I was able to do some travelling during my stay, including a trip to the Niagara Falls, both the American and Canadian sides. Over the Thanksgiving break, my

Spanish friend, Lluís, and I went on a road trip to Montreal, Canada and New York City, where we saw the Macey's Thanksgiving Day Parade. Our Chinese friend, Jun, showed us around China Town, which again was an insight into a very different culture. Academically, I have experienced a very different style of teaching and assessment, and socially, I have grown in confidence, while experiencing a different culture and way of life."

Many MEng students choose to carry out their five-month work placement abroad, recent destinations include New Zealand, India, the USA and Holland. Various scholarships are available to support students who plan industrial visits or placements abroad.

SOCIAL ACTIVITIES

The Materials Society (MatSoc), is run by students and provides a social focus for students in the department. The elected MatSoc Officers have a small budget raised by membership fees plus a departmental grant. Social activities for staff and students include a Christmas Party and Annual Dinner.

NATIONAL PRIZES

Our graduates have been notably successful in winning many national

awards for their achievements. For five out of the last six years, at least one of our students or new graduates has been awarded a national or international prize. These have included two of the coveted Royal Charter prizes awarded to the top Materials graduate in the country, a BEST award for Engineering students, and winners at the national SET awards.



Location and facilities

The Department of Materials Science and Engineering is located in the Sir Robert Hadfield Building. This is situated in the St George's complex, alongside the other Engineering departments. Many self-catering residential blocks are just a five-minute walk away and the Halls of Residence at the Endcliffe and Ranmoor Student Villages are within 25-minutes walking distance. There are frequent public transport links and some cycle routes. After Year 1 most students move into private accommodation in neighbouring areas.

The city centre and Students' Union are a 10-minute walk from the department, and the Goodwin Sports Centre, with its state-of-the-art facilities, is just a mile away. A Supertram stop adjacent to the University takes you to the railway station, and to the Meadowhall shopping and leisure complex.

There are lecture theatres and practical laboratories in the Sir Robert Hadfield Building and usually you are taught here or in buildings nearby. Networked computer rooms are available throughout the University.

The St George's Library, which covers all Engineering disciplines, is just a three-minute walk away.

Soft drinks and light snacks are sold in the department; local outlets offer excellent value for lunch or you can bring your own and eat in the Turner Museum (see page 4).

For more information about accommodation at the University, please visit the University web page www.sheffield.ac.uk/accommodation

Living in Sheffield

Sheffield is England's fourth-largest city and is located on the edge of the Peak District National Park and about two hours by train from London. Sheffield is a thriving city with theatres, cinemas, shopping facilities, bowling, ice-skating, nightclubs, art galleries and museums. Shopping facilities include Meadowhall, the popular shopping and leisure complex, and Division Street, a fashionable student haunt that is a two-minute walk away from the Faculty of Engineering.

Sheffield has world-class sports facilities, and the nearby Peak District provides excellent facilities for climbing, walking, caving, canoeing, sailing, windsurfing, gliding, hang-gliding and mountain biking. We also have the largest dry ski slope and snowboarding facilities in Europe, two climbing walls, reservoirs that offer a variety of water sports and more trees per head of population than any other UK city! The NatWest Student Living Index rated Sheffield as one of the cheapest cities in the UK to live and study, and according to the Home Office, Sheffield is among the safest major cities in the UK.

For more information about living in Sheffield, please visit the University web page www.sheffield.ac.uk/undergraduate/studentlife



Admission process

To apply for a place on one of our courses you need to complete a UCAS application form (see the University prospectus), or visit the UCAS website on www.ucas.com

Selection procedure

We receive a copy of your UCAS form a few weeks after its submission. If you live in the UK and have a suitable academic background, you will be invited to an Open Day. We encourage you to visit and learn more about our courses, the department, the University and its surroundings, as well as to learn about the various accommodation options and meet current students and staff. We run a number of Open Days each year, usually on Tuesdays or Thursdays in term, and offer parallel tours and presentations for parents. We contribute towards your travel costs, and can usually arrange inexpensive, overnight accommodation for those with long journeys. During the Open Day you will have the chance to talk on

a one-to-one basis to a member of academic staff. This is an opportunity for you to ask questions and find out more about the course, as well as for us to discover more about you.

We are particularly pleased to encourage applications from students who wish to take a gap year before entering the course or from mature students.

If you are an overseas student, and are unable to attend an Open Day in person, we will arrange a telephone interview with a member of academic staff at a time that is convenient for you.

If you wish to visit outside the normal cycle of Open Days, particularly if you live overseas, then please contact Mrs Louise Mason, our Undergraduate Admissions Secretary (see back cover for contact details).

Aspects of admission such as accommodation, registration, fees and their payment are dealt with centrally

by the University and the prospectus has further information. They send you an accommodation pack and booking form in March of your year of entry although final allocations are not made until August. You receive a registration pack shortly before your first week and this confirms arrangements for your entry onto the course, including medical provision, how to pay fees, registration for computing facilities and library cards, as well as details of 'Intro Week', an induction period which takes place immediately before the first semester starts. If you are an overseas student, you can arrive before Intro Week for an Orientation Programme to help you cope with the transition to life here, and you can also take English classes to improve your language ability.

Entry requirements

To enter the University you need English and Mathematics GCSE at grade C minimum, or equivalent qualifications. Additionally, we set entry standards to ensure that you are able to cope with the demands of the course. If you are taking A Levels, we ask for good results in at least two of Maths, Physics and Chemistry, and a B at GCSE level in the third (Dual Science award is acceptable); the Maths qualification should include pure and mechanical elements. If you are taking A Level Design and Technology, we also encourage you to apply. The Aerospace Materials courses require A Level Mathematics and one of either Physics or Chemistry.

Entry requirements are:

Qualification	Typical Entry Requirement (Course UCAS Code)
GCE A Levels	AAB (JH5C) ABB (J500, H403, J200, J5R9, FH21, JH5P) BBB (JH5D) BBC (JH51, H401, FHF1, J501, JH56).
Scottish Highers	AAAB-BBBB + AA-BC in Advanced Highers
Irish Leaving Certificate	AABBB-ABBBB
BTEC Level N	DDM in a relevant subject area including at least a Merit in Further Mathematics
International Baccalaureate	30-35 points

If you are unsure about the acceptability of your particular qualification please contact us for further details.

We read your personal statement and the reference to assess your motivation and to learn more about you; you should receive an offer unless our entry grades seem beyond your reach. If you choose Sheffield and meet the offer your place is assured; if not we consider all aspects of your performance and your potential to benefit from our course. Although exam qualifications are important, they are not the only estimate of potential and students with results just below the offer are not necessarily excluded. Students with other backgrounds are welcome to apply and are considered on merit. Again we look for competence in at least two of Maths, Physics and Chemistry.

We also consider direct second year entry if you have good overseas qualifications and your previous course overlaps sufficiently with our first year. If you are well qualified but have not studied appropriate sciences we can offer a Foundation Year. Please contact us if you are unsure about your position in either case.

A qualification in Key Skills is not a requirement for entry to our courses. However, we encourage you to highlight such skills in your application.

The improved fatigue characteristics of composite materials have allowed major developments in helicopter blade shapes.





The
University
Of
Sheffield.



Contact:

Mrs Louise Mason
Undergraduate Admissions Secretary
Tel: +44 (0) 114 222 5467
Email: l.c.mason@sheffield.ac.uk
www.sheffield.ac.uk/materials

Every effort has been made to ensure the accuracy of the information given in this publication. However, the University reserves the right to make changes.