

# a great location

The University of Salford campus is less than a mile and a half (three kilometres) from Manchester city centre, one of Britain's most exciting cities. It has excellent transport links with Salford Crescent railway station on campus and a regular bus service. It is only a couple of minutes' drive from the motorway network and less than 20 minutes' drive from Manchester International Airport.



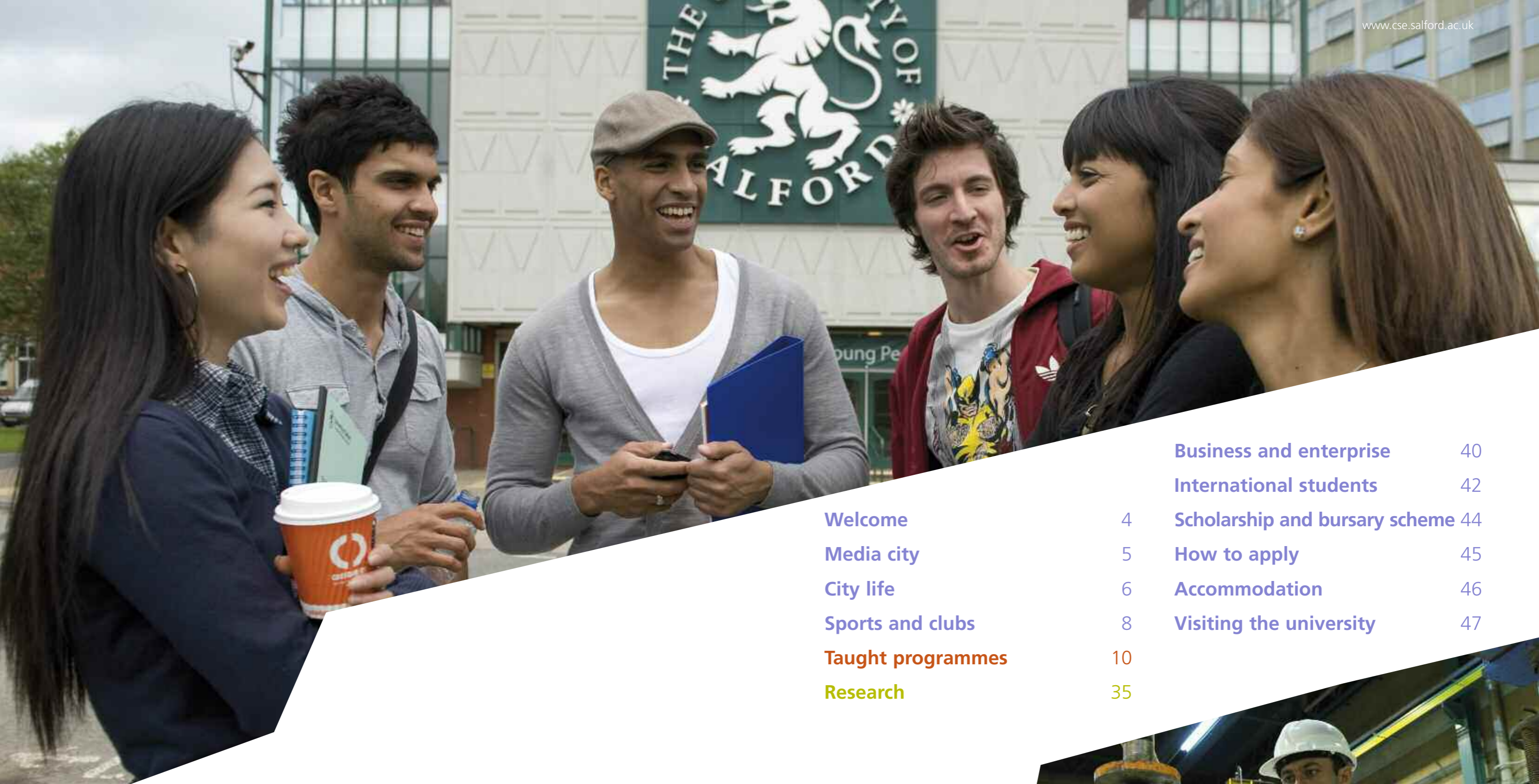
University of Salford  
A Greater Manchester University



# school of computing, science & engineering postgraduate

2010

School of Computing, Science  
& Engineering  
University of Salford  
Salford  
Greater Manchester  
M5 4WT UK  
[www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



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[www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



# welcome to the University of Salford, school of computing, science & engineering prospectus

Salford itself is very well placed close to the heart of Manchester city centre and like the region, has a history rich in science and engineering, synonymous with the origins of the Industrial Revolution. This heritage has enabled the School of Computing, Science & Engineering to develop into a modern and dynamic environment to study and is well placed to further the needs of modern society. There is an ethos of forward thinking and innovation with which to service the national and global economies.

The School is made up of specialist course teams:

- Acoustics, Audio and Video
- Computer Science, Multimedia and Telecommunications
- Engineering, which includes aeronautical, aviation, mechanical and civil engineering
- Physics and Materials

You will note that there is clear cross-discipline activity and a blurring of the boundaries between traditional academic disciplines to provide a wide and varied choice to help you develop your career prospects.

Most of our programmes are accredited by an appropriate professional body; this strengthens links with our industrial partners to ensure that your study is appropriate and relevant to the market place.

You will find referrals to our website throughout this prospectus, and we have included relevant contact details to enable you to contact academic and admissions staff – please forward your queries directly to them so they can give you expert information and advice. Further information is contained within the University of Salford prospectus.

We put on postgraduate open days so you can come and visit the university, meet staff, view our excellent facilities, and make sure the course you are interested in is the right one for you. In the School of Computing, Science and Engineering, our laboratory provision is an essential element in the successful delivery of our courses. Please visit us and see for yourself.

Whichever institution you choose to study in, we wish you well with your higher education study. Although we are passionate about our academic activity, proud of the provision of excellent resources and fortunate in our location in Greater Manchester, we recognise that our main strength lies within the many attributes of the culturally diverse community of students we attract to study with us.



## Media City UK

By 2012 the University of Salford will be centre stage at MediaCityUK, the 21st Century city under construction at Salford Quays. The development is already re-shaping the area's skyline and offering the prospect of increased prosperity and enhanced job opportunities.

At the heart of this global hub will be the University of Salford's hi-tech facility, adjacent to one of the BBC's three buildings. Students will be able to look out over a paved piazza and landscaped park twice the size of Trafalgar Square.

Facilities will include two TV studios, two radio studios, a digital media zone, a digital performance space and a Living Lab for engaging the public in research projects. There will also be lecture theatres, seminar rooms and extensive open plan areas, all equipped to the highest standards.

Two new postgraduate courses have already been developed in this School, in line with this focus on media, the MSc Audio Production and MSc Professional Sound and Video Technology. There are plans to design more in the future that will meet the demands of our key research partners and industry involved with MediaCityUK.

The facility in MediaCityUK will operate as an extension of the University's main campus just a mile down the road and it will provide a showcase for cutting-edge projects and exhibitions. It is designed to be a focus for research and innovation, as well as teaching activities. It promises to give a huge boost to the University's profile, building on the higher education partnership agreement signed last year with the BBC.





# citylife

The University is only a few minutes bus or car ride from the centre of Manchester, so all the attractions of the city are on your doorstep. Manchester is one of the fastest growing tourist destinations in Britain and has one of the largest student populations in Europe.

Manchester is one of the largest cities in the UK, it is rich in cultural and economic diversity and was the origin of the Industrial Revolution which has transformed the world economy.

**This exciting city offers many opportunities for part-time work and career development.**

#### Salford Quays

One of the most exciting developments taking place in Salford is MediacityUK - the University will be the second resident of the development situated right next to the BBC, who have relocated many of their departments from London to Salford.

The Lowry, the UK's National Landmark Millennium Project for the Arts and the site of the University graduation is also at Salford Quays. Adjoining The Lowry is a multi-screen cinema, shopping mall, restaurants and bars, facilities for water sports and a thriving business and residential community.

#### Museums and galleries

The city's rich heritage is well documented in its many museums. The Pump House People's History Museum, the Manchester Jewish Museum and the Museum of Science and Industry are just three celebrating Manchester's past. Salford Museum is on the University campus, and contains Lark Hill Place, a reconstruction of a Victorian street.

The city art galleries span 600 years of sculpture and paintings. Contemporary art can be seen at various venues in the city, not only in galleries but also in less traditional settings such as café bars.

#### Theatre

Manchester has many theatres and performance venues that stage their own acclaimed productions and welcome touring groups including the English National Ballet and Opera North.

#### Cinema

There are eight multi-screen cinemas in the region, the closest to the University being Salford Quays. Smaller independent cinemas such as the Cornerhouse and Cinecity screen a mixture of arthouse and mainstream films.

#### Eating out

The city has a diverse and huge number of restaurants. The most famous are the Indian restaurants that form the 'Curry Mile' lining the main street running through Rusholme, about a mile south of the city centre; and the many Asian restaurants that make up 'China Town' in the city centre streets around the Imperial Chinese Arch. Other cuisines include African, Australian, Dutch, Japanese, Lebanese, French, British and many more.

#### Bars, pubs and clubs

The past few years have seen the emergence of an unprecedented number of bars and café bars in Manchester. Many waterside bars have opened in recent times, as the canals running through the city have been renovated and regenerated, perfect for relaxing on sunny days and evenings.

#### Live music

The G-Mex Centre and the MEN Arena are two of the larger venues that host live music events bringing some of the biggest artists and bands in the world to Manchester. There are also many smaller clubs and bars where you can catch live performances from rising stars and local bands.

The Bridgewater Hall, an international concert hall, offers a diverse and reasonably priced programme, including its resident Hallé Orchestra.

[www.gmex.co.uk](http://www.gmex.co.uk)

[www.men-arena.com](http://www.men-arena.com)

[www.bridgewater-hall.co.uk](http://www.bridgewater-hall.co.uk)

#### Shopping

The city has all the top stores you would expect from a large city, plus many more specialist shops and boutiques. The Barton Arcade and Affleck's Palace, each quirky and unique, are worth a visit. The Trafford Centre is only a few miles away from the University, with hundreds of retail shops, a large food court and a multi-screen cinema under one roof.

#### Away from the city

The excellent transport network from Salford University allows easy access to local natural attractions such as the breathtaking countryside in the Lake District, the Yorkshire Dales and the Peak District. Scotland and Wales are also easily reached and London is two hours away by train.

Opportunities for participation in social, recreational and sporting activities are many and varied within the University and throughout the region.

#### **Manchester has a tradition of excellence in sport**

Manchester United Football Club is less than two miles from the University, first class cricket can be seen at Old Trafford and Salford has one of the best Rugby League teams in the country, the renowned Salford Reds.

The 2002 Commonwealth Games brought huge benefits to the sporting infrastructure such as the Velodrome and Indoor Tennis Centre. The main athletics stadium has been extended to a 48,000 all-seater stadium, now also the home ground of premiership football club Manchester City, would-be rivals to Manchester United.

#### **University sports facilities**

Fitness, climbing, swimming, football, snooker, squash and tennis are just a few of the activities available to students in the extensive sports facilities on the University campus.

#### **Clubs and societies**

The University offers you a chance to develop your existing interests, or to pursue new and unexpected ones. The Students' Union seeks to enhance this experience by providing a wide range of clubs and societies run by students themselves. These range from traditional sports clubs for men and women such as football, rugby, netball and hockey to activities such as paintball, Gaelic football and sub aqua diving. The Union also competes in the North West Varsity Games tournament and the boat race between Salford and Manchester Universities.

If you are not interested in sport, you might find what you are looking for in the social societies. The range covers societies representing the varied ethnic and national cultures represented at Salford, societies that encourage the development of political points of view, and societies seeking to develop new student activities on the campus such as the Student Radio Society.

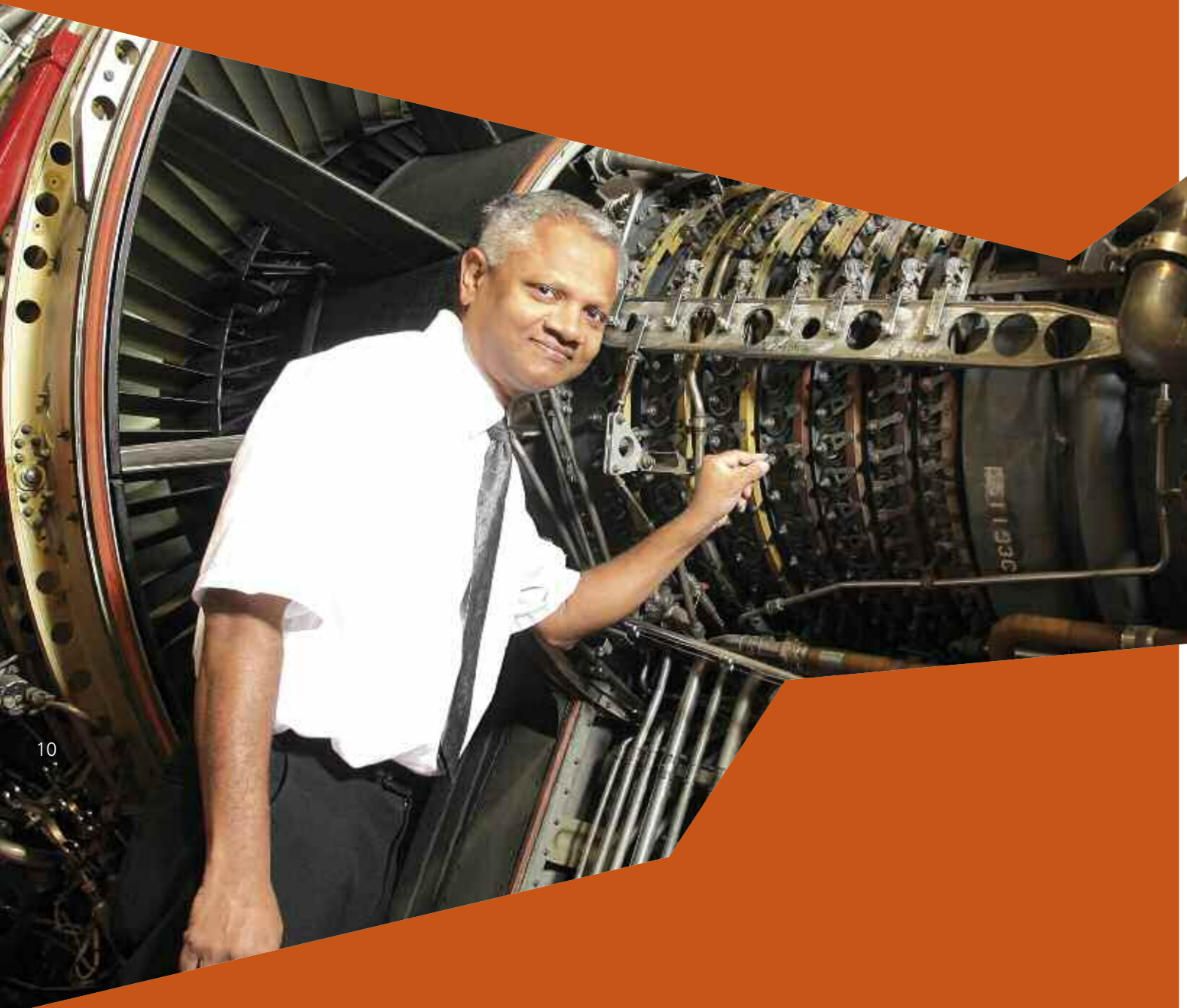
Find out more visit  
[www.salfordstudents.com](http://www.salfordstudents.com)

# sports and clubs

- Meet new friends and enjoy a great social life
- On campus health, fitness and sports centre
  - Student Union hosts clubs and societies
- Represent the University in competitive sports



# taught programmes



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## MSc/PgDip Advanced Control Systems

The programme is control systems focused, with the emphasis on a range of control applications including industrial control, intelligent control, flight control and robotic control. The control systems approach provides continuity in learning throughout the one year of study. Within the main technical areas, analysis, synthesis and conceptual design are underpinned through the use of software tools to aid the design process. The introduction of a range of computational tools, in Engineering Computation, Artificial Intelligence and Manufacturing System Design and Simulation, enables the study of realistic industry standard problems.

The programme was designed for engineering graduates seeking employment in the Automation and Control sector, and, in part-time mode, for practising engineers from the Control Systems area who wish to extend and update their skills.

- Opportunities for career progression into the Automation Industry
- Emphasis on feedback control, robotics, flight control and manufacturing
- Course designed by using Engineering Council benchmarks

The modules to be studied include:

- Engineering Computation
- Industrial Control Technology
- Computational Intelligence
- Control Systems
- Manufacturing System Design and Simulation
- Manipulators Theory and Practice
- Advanced Control Technologies and Applications
- Advanced Flight Control

**Career progression**  
Manufacturing and Engineering companies, Aerospace sector and a wide range of Control and Automation opportunities.

### Duration

MSc: one year full-time,  
two years part-time.  
PgDip: nine months full-time.

### Entry Requirements

- Typically a minimum of 2:2 honours degree with significant numerate content comparable to first degrees in mechanical or aeronautical engineering
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Tony Jones  
a.h.jones@salford.ac.uk  
T +44 (0)161 295 4512

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Aerospace Design and Manufacture

The programme has been designed to assist engineering graduates seeking employment in the aerospace manufacturing and design sector, and in part-time mode, for practicing engineers from the aerospace industries who wish to extend and update their skills.

- Learn to deal with complex engineering issues in a systematic and creative way
- Employ a range of techniques to review and critically analyse information
- Design and specify manufacturing processes that can be exploited for prototype manufacture

The modules to be studied include:

- Manufacturing Technology
- Sustainability
- Industrial Aerospace Design Group Project
- Manufacturing System Design and Simulation
- Appropriate and New Materials Technology
- Aerospace Assembly
- Aerostructures
- Dissertation

### Career progression

The Aerospace industry is currently undergoing an unprecedented expansion fuelled by worldwide economic growth.

### Duration

MSc: one year full-time,  
two years part-time.  
PgDip: nine months full-time.

### Entry Requirements

- Typically a minimum of 2:2 honours degree with significant numerate content comparable to first degrees in mechanical or aeronautical engineering
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
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General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Tony Jones  
a.h.jones@salford.ac.uk  
T +44 (0)161 295 4512

### Start Month

September

### Application Form

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## Student Profile

**Mir Abdul Hasan**  
MSc in Advanced Control Systems

"I chose to study at the University of Salford when I saw the quality of the teaching and learning facilities; the labs are excellent and the library and computing rooms were vital when it came to my dissertation. I also chose the MSc when I found out the programme was designed for engineering graduates seeking employment in the automation and control sector. The course content was amazing including modules on feedback control and robotics. The study support was great too, with the lecturers giving me time to discuss anything I needed help with.

The university has been great in itself; the atmosphere around campus is lively and always friendly. The gym and café areas have been great when I needed time away from my studies and the location of the university to the city is excellent. Watching United matches and enjoying the nightlife has been a great experience.

My time at Salford has been outstanding, the understanding I gained on the course subject and support I was given, is first class. When I graduate I will be looking to seek employment in the automation and control sector."



## MSc/PgDip/PgCert Aerospace Engineering

Students wishing to pursue a career in aerospace engineering will be able to apply their skills and knowledge of engineering science in the design of aerospace devices and the associated components used in the production of civil and military aircraft, spacecraft and weapons systems.

The aerospace industry is at the forefront of modern engineering and manufacturing technology. Engineers trained in this field are in great demand.

The modules to be studied include:

- Aerodynamics
- Aerospace Computation and Assembly
- Aerostructures
- Flight Dynamics and Control

### Career progression

Aerospace manufacturing is an industry achieving phenomenal growth particularly in Europe and the UK but also worldwide and there is an expanding need for highly skilled Chartered Aerospace Engineers. To achieve chartered status, UK engineers need a Master's level qualification. The MSc/PgDip in Aerospace Engineering is a highly-valued qualification and graduates can expect to pursue careers in a range of organisations around the world such as aerospace companies and their suppliers, governments and research institutions.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.  
PgCert: nine months full-time.

### Entry Requirements

- A first degree in an engineering or numerate science discipline such as aeronautical, mechanical or electrical/electronic engineering or physics
- Applicants who have a HNC/HND and five years' relevant experience may be considered for entry to the PgDip, initially
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

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#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)  
T +44 (0)161 295 4545

#### Programme leader

Dr Tony Jones  
[a.h.jones@salford.ac.uk](mailto:a.h.jones@salford.ac.uk)  
T +44 (0)161 295 4512

#### Start Month

September

#### Application Form

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## MSc/PgDip Audio Acoustics

(Distance-learning available)

This programme is for students with an engineering or science background who wish to specialise in audio acoustics. It provides a strong theoretical understanding of audio acoustics.

The programme features the acoustic aspects of audio such as digital signal processing, transducer design, room acoustics and sound reproduction. The generation, manipulation, and reproduction of high-quality audio signals are core elements of the rapidly-expanding communication and entertainment industry.

Taught modules include:

- Mathematics and Vibration
- Transducers and Sound Reinforcement
- Acoustics and Signal Systems
- Psychoacoustics
- Digital Signal Processing
- Numerical Techniques
- Room Acoustics
- Transducer Design

MSc students will also study an individual project.

For those studying away from Salford, support is via e-mail, Internet, telephone and fax, in addition to optional laboratory sessions at the University.

### Career progression

The University has 30 years' experience of placing graduates in key audio acoustic industries carrying out consultancy, research, development and design.

Students have been able to take up positions with companies involved in mobile telephony, car audio, entertainment consoles, loudspeaker manufacture, audio components, surround sound audio, public address and sound reinforcement, building and studio design.

For further career details, please check [www.acoustics.salford.ac.uk](http://www.acoustics.salford.ac.uk)

### Duration

MSc: one year full-time, two or four years part-time.  
PgDip: nine months full-time, 18 or 36 months part-time.  
MSc by distance-learning: typically takes four years plus project. Students should be prepared to set aside one full study day per week for each module studied via distance-learning.

### Entry Requirements

- A first- or second-class degree in a numerate engineering or science discipline. All applicants must have a significant grounding in engineering mathematics
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)  
T +44 (0)161 295 4545

#### Programme leader

Dr Mark Avis  
[m.r.avis@salford.ac.uk](mailto:m.r.avis@salford.ac.uk)  
T +44 (0)161 295 4716

#### Start Month

September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



## MSc/PgDip Audio Production

This programme is for graduates with a significant knowledge of audio technology and production, who want to gain a further understanding in this area. It is a comprehensive, informative and practical production course that provides students with a set of transferable and professional specialist skills in the areas of audio technology and production.

The programme features a mix of technology, theory and production based modules that entail both lectures and practical work within the labs and recording studios.

Modules to be studied include:

- Digital Studio Production
- Sound Synthesis
- Creative Audio Environments
- Research Methods
- Social Media
- Audio Post Production
- Digital Control in Audio
- Multi-Platform Distribution

MSc students will also study an individual project.

### Media City

MediaCity:UK is a purpose-built media hub that is being developed at Salford Quays which will provide staff and students on the Audio Production course with vital links into the North West media industries. It is projected to provide employment for 15,500 people plus 1500 trainee posts per year in over 1000 media related businesses.

### Career Progression

The University ensures that the wide range of skills provided on the Audio Production course will enhance graduate employability.

Graduates have the opportunity to follow career paths in areas such as, audio manufacturing research and design, recording studio/Live sound engineer, audio/visual design and installation, interactive media and broadcast engineering in audio for radio and TV.

For further details, please check [www.acoustics.salford.ac.uk](http://www.acoustics.salford.ac.uk).

### Duration

MSc: One year full-time,  
Three years part-time.

### Entry Requirements

- Second-class honours degree. Degree must contain significant elements of audio technology and production.
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

International-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Admissions tutor

Jos Hirst  
j.hirst@salford.ac.uk  
T +44 (0)161 295 4520

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Computer Science

This one-year conversion programme allows students with a Bachelor's degree in any subject to gain a solid background in computer science.

The programme provides students with theoretical knowledge and practical experience. Students are able to appreciate and utilise new developments in a rapidly-changing subject area.

Modules to be studied include:

- Programming Techniques and Algorithms
- Software Engineering
- Databases
- Research Methods
- Management Principles and Practice
- Human Computer Interaction Usability
- Project and Dissertation.

Many of the dissertation projects contribute to research carried out in the Schools Research Centre. There is a high demand from employers for graduates with strong computer science skills.

Typical careers after graduation might include systems analyst, systems programmer, computer analyst, software engineer, systems integration developer, IT systems administrator.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.

### Entry Requirements

- An honours degree (second-class or above) in any subject
- This programme is not appropriate for students who already have significant computer programming experience – try the MSc Databases and Web-based Systems as an alternative
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Rob Aspin  
r.aspin@salford.ac.uk  
T +44 (0)161 295 2932

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

### Lauren Fitton MSc Computer Science

"I came to Salford University because I found the facilities and its campus really pleasant. I wanted to study my undergraduate degree there but it wasn't available. However, when I was considering my Masters Degree I visited the campus again, and once more was impressed.

I chose the MSc in Computer Science because I wanted to be involved with the development of websites. I enjoyed the course and I am glad I made the decision to study at Salford. It was more than I expected and I have covered more than I thought I would. Each module was interesting, especially Programming Techniques and Algorithms and has given me even more motivation for Computer Science.

The university has been a great experience, the staff and support from all tutors has been amazing. After I graduate I am hoping to get a graduate scheme job and gain specialized training in this particular area."



## MSc/PgDip Creative Games

This is a practice-based programme focusing on the creative employment of computer and videogames. "Creative Games" describes a Cultural Field, a Creative Technology and a New Emerging Discipline at the crossroads of Computer Games, Media Art, Architecture and Urban Planning, Heritage and Advanced Digital Technologies. There is move from many media professionals to cross-breed and merge the various creative skills and applications between those media sectors than ever before.

Aspects of Creative Games include:

- History and Philosophy of Computer Games
- Aesthetics of Computer Games
- Games as Museums and Exhibitions
- Computer Games as Musical Instruments and Sound Tools
- Interactive Text Spaces
- Embedded Games (Cross-media and mixed media)
- City-Scapes in Ludic Contexts  
The philosophy of this programme in Creative Games is expressed through the following features:
- Understanding the various approaches, methods and issues related to games technology and industrial and creative practice

- Gaining specific skills in a number of areas, including creative thinking, research methods, games studies, visualisation, multi-media, interactivity, and creative interface design
- Developing the ability to think dynamically and creatively
- Gaining the expertise to focus on a specific avenue of interest, carry out enquiries and experiment, produce pioneering projects or realise innovative working prototypes and solutions.

### Career Progression

Graduates will find a wide range of jobs and possible professional career paths. There is on one hand the games industry with a particularly strong presence in the Northwest of England. On the other hand there is the cultural sector with a strong demand to implement urban, architectonic, artistic and heritage-related content in game based applications. TV and the entertainment industry is looking for well educated creatives who can conceptualize ideas for new audiences and implement them in playful environments.

### Duration

MSc: one year full-time,  
two-years part-time  
PgDip: nine months full-time

### Entry Requirements

- A good honours degree in an appropriate discipline, such as computer and video games, art and design, computer science, heritage, architecture
- Equivalent industrial expertise or artistic practice
- We welcome applications from students with alternative qualifications and/or significant relevant experience, subject to approval through a process of Accreditation of Prior Learning (APL). For further details, please contact the School
- Due to the fast-changing and new fields Creative Games encompasses, applicants with non-conventional ideas, backgrounds and interests are welcome to apply
- International students must provide evidence of proficiency in English - IELTS 6.5 band score or a score of TOEFL at 575 or above (232 computer based) with a TWE of 4.0 or above are proof of this
- If your current English language qualification is below this level, you may be able to take one of the many pre-session English courses in our School of Languages. For further details, visit [www.languages.salford.ac.uk](http://www.languages.salford.ac.uk)

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### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

International-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Matthias Fuchs  
m.fuchs@salford.ac.uk  
T +44 (0)161 295 6157

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Data Telecommunications and Networks

This programme is for students who want to become trained professionals in computer network and modern telecommunications fields.

You will gain a comprehensive understanding of techniques used to transmit digital information, modern computer network design and operation, communication protocols and the importance of standards and regulatory issues. These subjects are supplemented by modules in technical and administration management techniques and by an industry-sponsored seminar programme. You will also undertake an individual project.

Modules to be studied include:

- Computer Networks
- Programming for Network Systems
- Wireless Communication
- Network Security
- Network Architectures and Design
- Network Quality of Service
- Research Methods
- Management Principles and Practice
- Project and Dissertation

This programme has close links with the Centre for Networking and Telecommunications Research (CNTR) and Cisco Networking Academy within the school. This allows us to offer students high quality education that combines practical, academic and research skills.

### Career progression

Graduates with experience of computer network systems and digital communications are in demand in all industrial and commercial sectors. The employment record for the MSc is good, with students obtaining jobs in traditional telecommunication companies, software development companies and companies in the service and commercial sectors. Typical jobs range from network design engineers, network maintenance, software development, systems design and integration, marketing, after-sales support and technical support.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.  
Part-time duration varies and is dependent upon how many modules are studied each year.

### Entry Requirements

- An honours degree (second-class or above) in an appropriate subject, such as electronic or electrical engineering, computer science or physics
- Other subjects with a high technical content will be considered individually. Please submit a syllabus with your application form
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

See page 44

### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Adil Al-Yasiri  
a.al-yasiri@salford.ac.uk  
T +44 (0)161 295 6399

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

Liu Qi is a Research Assistant for the University of Salford working on a European project researching an Intelligent hoc for wireless sensor networks; he graduated with a PhD in Data Telecommunications and Networks in 2009.



"I wanted to come and study in the UK and on asking an agent they recommended The University of Salford. After learning English for a year at Salford I was motivated by a lecturer to continue my research at the University. I also looked at the quality of the research and noticed it was rated 6 star.

I really enjoyed studying at Salford. The University is a flexible environment to work in, it is easy to concentrate and keep on track with work; having interim assessments helped me greatly, as I didn't lose the purpose of my research.

I have also learnt a great deal from the team work and lectures, but have thoroughly enjoyed the practical elements of my final project. The facilities at Salford were better than expected - they are excellent!

Without coming to Salford I would not be where I am now; I would thoroughly recommend the University to anyone considering it."

## MSc/PgDip Databases and Web-based Systems

It is expected that applicants will already have significant computing experience before enrolling on this programme.

Databases and web-based systems are rapidly-expanding areas of computer science. This specialist MSc is designed to provide graduates with the knowledge and skills to design the next generation web-based data systems.

Modules to be studied include:

- Web-based Software Development
- Advanced Databases
- Programming for Network Systems
- Human Computer Interaction and Usability
- Research Methods
- Management Principles and Practice.

Graduates would be expected to develop new web-based database applications in areas such as:

- e-Commerce
- e-Government
- e-Science
- e-Learning

### Career progression

Typical careers might include:

- Software Analyst
- Software Developer
- Database Developer
- Web Programmer
- Network Manager

## Student Profile

### Garfai Leung

**"I wanted a new experience with a different university from my undergraduate study, one that was nearby and easy to commute from home."**



Knowing a friend who got a computing related job, a few weeks after graduating was a reassuring reason too. After studying with a computer game related degree, I have realized that there aren't many game related career opportunities for a newcomer with an average grade. The IT vacancies in the Northwest are primarily web and database related with technologies such as PHP, .Net, SQL and Flash; therefore this course provided a quick way to learn the de facto of those areas that I have missed in my previous study.

The course has a diverse range of modules that provides different skills and knowledge. For example, the Management Principles and Practice module changed my career perspective of just being a subordinate worker and boosted my confidence for essay writing. I was expecting a deep learning curve in the course, but it wasn't the case which was more to do with a new way of learning like researching. My favourite parts were the programming and technical aspects of the course since I always enjoy learning the ways of how technology works.

Meeting a group of new friends from around the world and learning their cultures were the highlights of being at Salford."

### Duration

MSc: one year full-time.

PgDip: one year full-time.

### Entry Requirements

- A good honours degree (second class or above) in a computing discipline, such as computer science, computer engineering, software engineering or Internet computing
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries

T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk

T +44 (0)161 295 4545

#### Programme leader

Dr Rob Aspin

r.aspin@salford.ac.uk

T +44 (0)161 295 2932

#### Start Month

September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Environmental Acoustics

(Distance-learning available)

The programme is designed for graduates who already have an engineering or numerate science degree who wish to gain specialist skills and knowledge in environmental acoustics. Acousticians are currently in very short supply, and Salford MSc Environmental Acoustics graduates are in a very strong position to develop their career in this field.

- Top-rated (6\*) Acoustics Research Centre
- Salford is one of only two major academic centres in the UK to undertake teaching, research and consultancy in acoustics
- Professional Accreditation by the Institute of Acoustics.

The programme features the acoustic aspects of audio such as digital signal processing, transducer design and environmental noise measurement and control. The course will enable graduating students to carry out environmental noise assessments in industry, local government and/or acoustical consultancies, both in the UK and overseas. There will be a need to work to appropriate national, international and professional standards and develop a systematic understanding of the principles underpinning environmental acoustics. There will be an awareness of current problems, and the ability to apply knowledge creatively to solve real environmental acoustics problems.

Modules to be studied include:

- Mathematics and Vibration
- Transducers and Sound Reinforcement
- Acoustics and Signal Systems
- Psychoacoustics
- Digital Signal Processing
- Numerical Techniques
- Environmental Noise Measurement
- Noise control
- Individual Project.

If you are studying away from Salford, support will be via email, internet, telephone and fax, in addition to optional laboratory sessions at the University.

### Career progression

The University has 25 years' experience of placing graduates in key environmental acoustic industries carrying out consultancy, research, development and design. Students will develop practical and intellectual skills and gain the requisite knowledge to undertake research, consultancy or local government work in environmental acoustics. This programme has a close association with the Acoustics Research Centre.

For further career details, please check [www.acoustics.salford.ac.uk](http://www.acoustics.salford.ac.uk).

### Duration

MSc: one year full-time.

PgDip: nine months full-time.

MSc by distance-learning typically takes four years, plus project.

### Entry Requirements

- A first or second-class degree in a numerate engineering or science discipline. All applicants must have a significant grounding in engineering mathematics
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

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### International Scholarships

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### Enquiries

#### UK/EU

General enquiries

T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk

T +44 (0)161 295 4545

#### Programme leader

Dr Mark Avis

m.r.avis@salford.ac.uk

T +44 (0)161 295 2932

#### Start Month

September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



Photo courtesy of Hepworth Acoustics

## MSc/PgDip Gas Engineering and Management

The Gas Engineering and Management programme is designed to provide a flexible but rigorous period of study for graduates working in, or intending to work in, the natural gas/oil industry.

A comprehensive range of subjects is studied covering the whole spectrum of natural gas engineering, providing a sound base from which to select an area of specialised study.

Current modules include:

- Fundamentals of Natural Gas, Production Systems and Design
- Distribution, Transmission Systems and Design
- Gas Flow and Network Analysis
- Business and Project Management of Natural Gas Engineering
- Experimental and Measurement Methods
- Utilisation of Natural Gas
- Quality and Logistics.

### Career progression

Graduates pursue a variety of careers in the natural gas/oil industry. The programme covers all aspects of gas technology and associated gas business management and will enable students to increase their skills and technical knowledge.

Graduates may also be eligible for membership of the Gas and Management Institute and subsequently become Chartered Engineers, or continue their studies to PhD level, researching gas engineering or other related subjects available within the School of Computing, Science & Engineering.

Many employment prospects for graduates are available in the global gas and oil industries.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.

### Entry Requirements

- A first degree in an appropriate discipline such as mechanical engineering
- Applicants who have an HNC/HND and four years' relevant industrial or professional experience may be considered for entry to the PgDip initially
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Admissions tutor

Dr Martin Burby  
m.burby@salford.ac.uk

### Programme Director

Dr G G Nasr  
g.g.nasr@salford.ac.uk

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip/PgCert Industrial and Commercial Combustion Engineering

### (E-learning)

This programme is designed for graduates and/or professional engineers who wish to gain specialist skills in Industrial and Commercial Combustion Engineering.

The programme is the first of its type in Britain to consist of a blended e-learning programme with a comprehensive online content, allowing students to study whilst in full-time employment.

The course is created to address the concerns of the current industry; that there are insufficient suitably qualified engineers capable of designing, commissioning, servicing and maintaining industrial and commercial combustion equipment.

Modules covered (depending on programme route) include:

- Combustion theory
- Burner types and design
- Burner utilisation
- Burner process control
- Industrial gas safety and regulations
- Industrial gas pipework and standards
- Industrial burner commissioning
- Burner optimisation and fault finding

MSc students will also undertake a supervised dissertation.

### Career Progression

The Industrial and Commercial Combustion Engineering programme is designed for non-graduate and graduates, after their first degree or equivalent who are working, or intend to work in the combustion industry. The programme aims to provide engineers and industrial practitioners with an advanced specialism in industrial and combustion engineering.

Graduates of the programme can pursue a variety of careers in both industrial and commercial combustion engineering and other related fields of engineering, such as: petroleum, process, aeronautical and the automotive industry.

They may also be eligible to join the Institution of Gas Engineers & Managers or the Institution of Mechanical Engineers and based upon their qualifications and experience they may be able to qualify as a Chartered Engineer.

### Duration

MSc: three years.  
PgDip: two years.  
PgCert: one year.

### Entry Requirements

- The minimum entry requirement for those from a British University or equivalent with Engineering and Scientific disciplines is a 2:2 degree.
- Appropriately experienced applicants will be considered in line with the University's APEL procedure. This will take the form of a portfolio of relevant work experience within the field of engineering.
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Admissions tutor

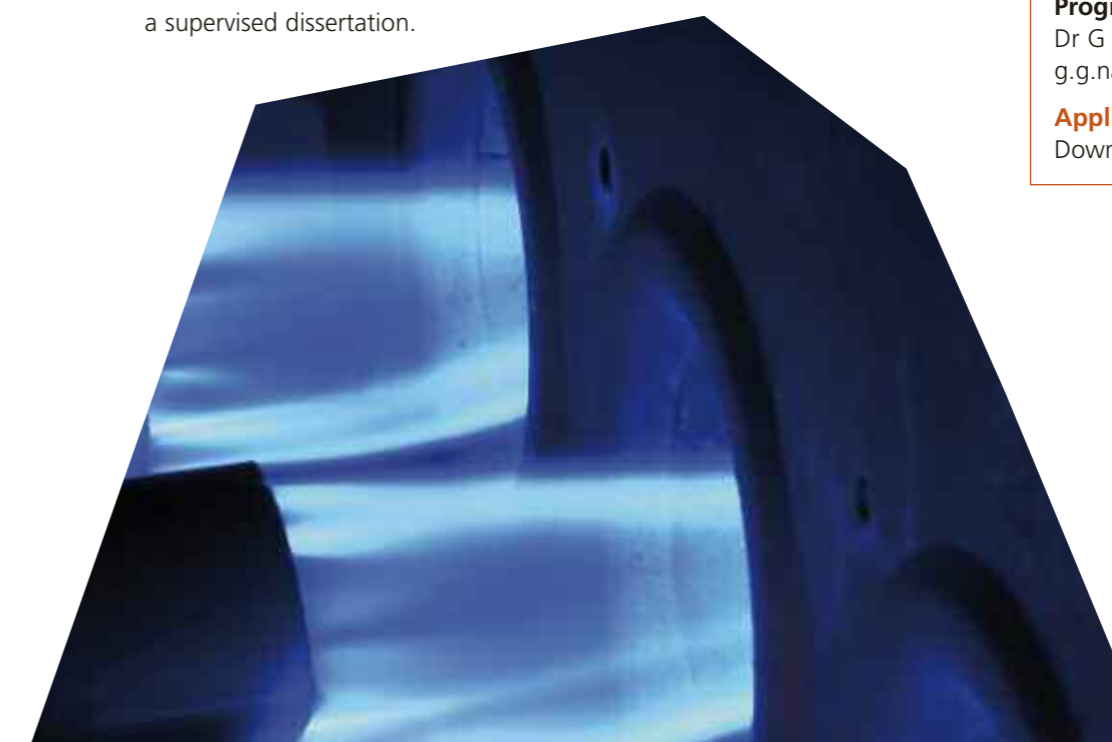
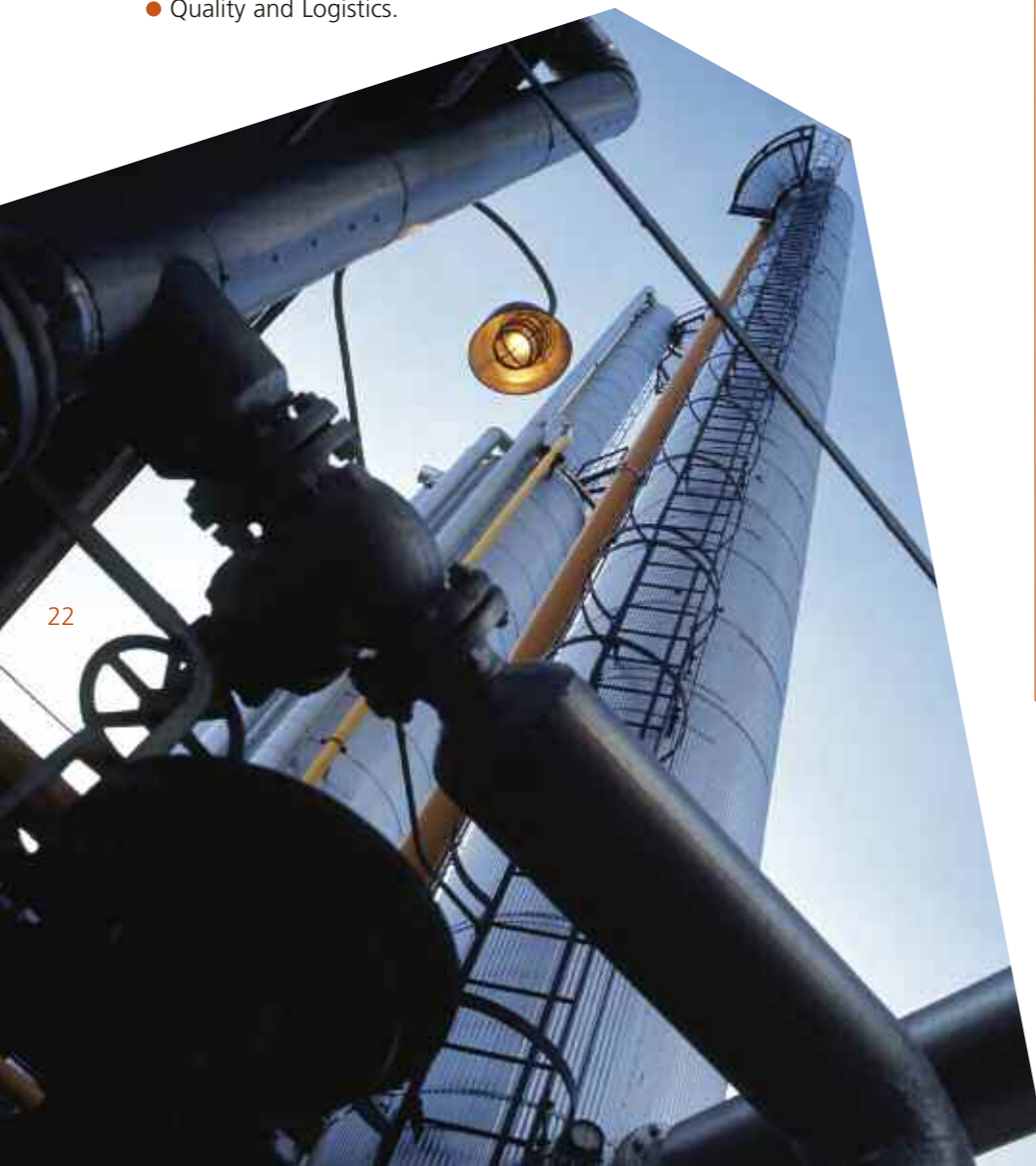
Dr Martin Burby  
m.burby@salford.ac.uk

### Programme Director

Dr G G Nasr  
g.g.nasr@salford.ac.uk

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



## MSc Information Security/ MSc Information Security Management

This advanced programme is designed for graduates who want to focus on the area of security from a professional and organisational perspective.

Information security requires a clear understanding of relevant technological issues and of the social/organisational issues, as well as the relationships between them. This programme covers these concerns by offering modules that cover security technologies, incident management and support, network quality of service as well as knowledge system architecture.

This programme has the support of the Information Systems Audit and Control Association (ISACA) Northern Chapter to ensure that the curriculum is relevant to the changing needs of the Information Security industries and professions.

It is run and taught jointly by Salford Business School and the School of Computing, Science and Engineering.

Modules to be studied include:

- Computer Networks
- Research Methods

- Information Technology and Systems in Organisations
- Information Security Policy and Risk Management
- Information Security Standards
- Basic Technologies for Information Security
- Security Incident Management and Response
- Optional modules also available, for more information visit [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

MSc Information Security Management students will produce a dissertation and MSc Information Security students will complete a project.

### Career Progression

There is a heavy demand for graduates with a specialised knowledge of information security from both a professional and organisational perspective. Graduates can expect to find career opportunities with Blue Chip organisations and businesses offering bespoke security services and clients. With suitable experience, opportunities for consultancy based work also exist.

### Duration

One year full-time,  
Two years part-time.

### Entry Requirements

- Minimum 2.2 degree in a relevant field
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.5 a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

International-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Admissions tutor

Grahame Cooper  
g.s.cooper@salford.ac.uk  
T +44 (0)161 295 5759

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip/PgCert Manufacturing Systems and Management

This programme is for engineers currently employed in the manufacturing industry, science graduates wishing to make a career in manufacturing or a related industry and manufacturing engineers wishing to update their knowledge.

The programme equips graduates with the skills required by industry for the effective design, implementation and management of modern manufacturing systems.

Modules include:

- Automation and Robotics
- Sustainability
- Manufacturing Technology
- Operations, Techniques and Management
- Aerospace Assembly
- Quality and Logistics
- Manufacturing Systems Design and Simulation
- Appropriate and New Material Technology.

Case studies are used to provide links to ongoing research and industrial applications. Hands-on experience complements computer-based teaching in simulation modelling, manufacturing, robotics and assembly.

Employers are now finding it difficult to recruit engineers with relevant skills and experience of modern manufacturing techniques. This programme enables engineers to improve manufacturing companies through modern manufacturing technology and techniques.

### Career progression

Career prospects lie in a range of areas from design and manufacturing engineering, management roles in the automotive, electronics, aerospace, food processing and packaging sectors of the manufacturing industry, to manufacturing systems consultants.

The electronics, food processing and packaging sectors of the manufacturing industry are particularly buoyant, and offer promising career opportunities. The majority of graduates secure employment before the end of the programme. Recent graduates have secured jobs with IBM, ICL/Celestica, GEC Marconi Avionics, Motorola, FARMEC and ISL.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.  
PgCert: nine months.

### Entry Requirements

- A good honours degree (minimum 2.2) in engineering or science
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Farhad Zahedi-Hosseini  
f.zahedi@salford.ac.uk  
T +44 (0)161 295 5372

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

### Mingxu Sun

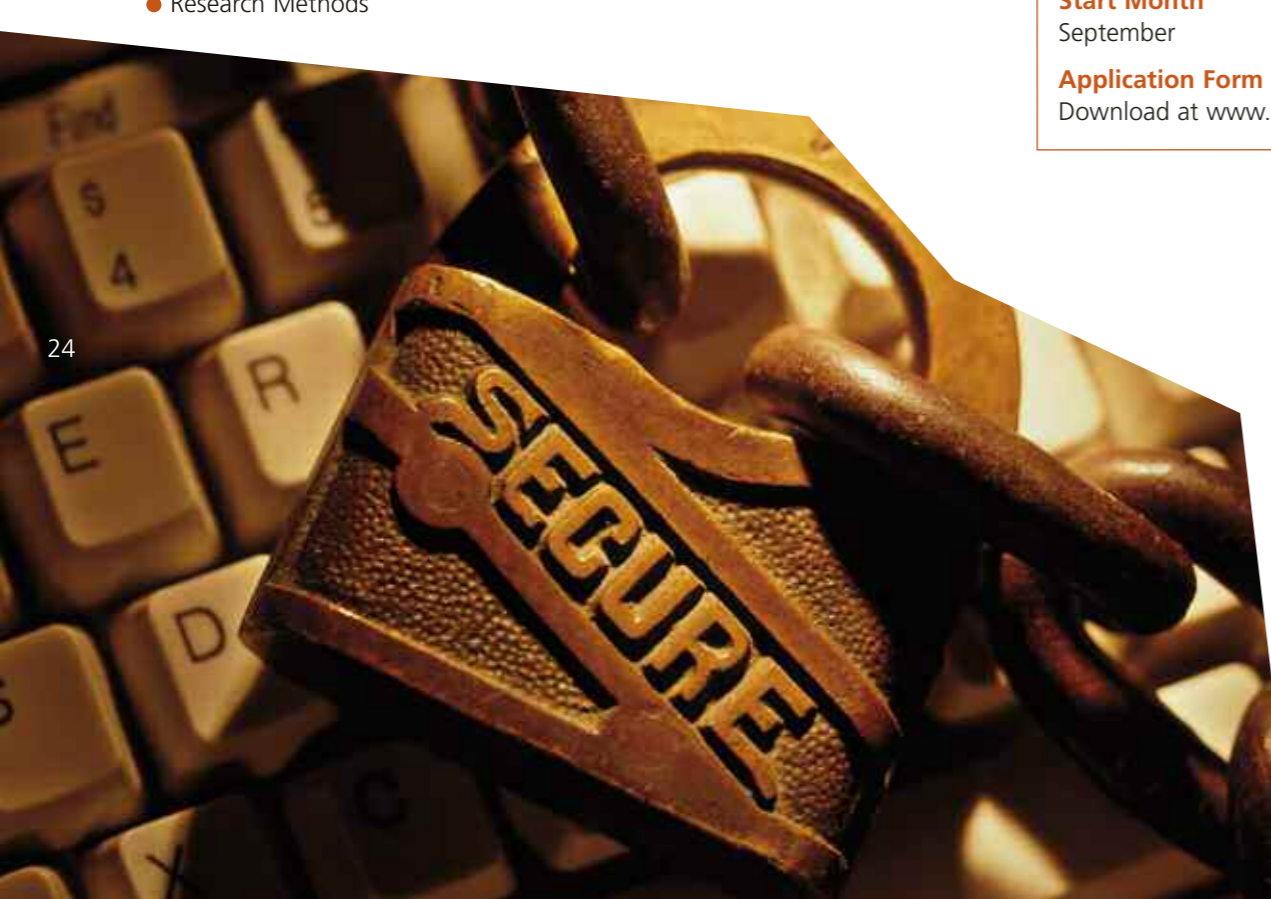
"The main thing that attracted me to the University is that Manchester has a large scale china town which is not far from Salford!"

I really enjoy the life here and the convenient services available, such as the free bus and student pub.

My course helps me to understand more about manufacturing systems and relative work. In this case, I can almost tell every part of manufacturing industry and I think it really contributes my future career.

I did optimization programming for my dissertation. That system is applied in finding the proper threshold and helps stroke patients to partially restore the function of upper limbs.

Doing PHD in the next year, still in application. Hopefully I can still stay here."



## MSc/PgDip/PgCert Materials Physics

The development of new materials is an area that underpins advances in technology in a diverse range of applications. Examples include new materials to store hydrogen, non-linear optical materials for all optical communication, biocompatible materials, materials that will withstand extreme heat and pressure etc.

The course is designed to place the student at a point he/she will understand the issues and be able to make a real contribution to research and development in this area. Throughout the course emphasis is placed on the understanding of the atomistic origin of materials properties and characterisation techniques used to probe such properties.

The course includes fundamental topics: Bonding and interactions, Atomistic dynamics in solids, magnetic properties and electronic properties. Further courses in materials synthesis and characterisation are offered that provide understanding and experience in state-of-the-art methodology in these areas.

An important part of the course is a research project conducted within one of the materials physics research groups. Projects can involve the use of state of the art facilities including electron microscopes, laser and X-ray spectroscopy facilities, ion-beam implantation facilities and nanotechnology fabrication facilities.

Researchers are also extensive users of international facilities such as Neutron sources and Synchrotron sources. In addition you will have access to our own in-house high performance computational facility for modelling research. Full details of the research groups and potential project areas can be found at [www.cse.salford.ac.uk/physics](http://www.cse.salford.ac.uk/physics)

### Duration

MSc: one year full-time,  
two years part-time.  
PgDip: nine months full-time.  
PgCert: nine months full-time.

### Entry Requirements

- Honours degree in Physics or Physics related project
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries UK/EU

General enquiries  
T +44 (0)161 295 4545

### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Prof Ian Morrison  
i.morrison@salford.ac.uk  
T +44 (0)161 295 5303

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Petroleum and Gas Engineering

This programme is designed for graduates, engineers and industrial practitioners to gain advance specialist skills in petroleum and natural gas engineering and business management.

The programme enables engineers and scientists to understand exploration, drilling, production and distribution and transmission of oil and gas from practical and theoretical viewpoints. The knowledge and the skills acquired in problem solving in terms of development, design, business and economics management in oil and gas engineering assist the graduate in making management or scientific decisions.

Modules include:

- Petroleum Economics and Project Management
- Geology, Exploration, Drilling and Production

- Fundamentals of Natural Gas and Production Systems and Design
- Distribution, Transmission Systems and Design
- Gas Flow and Network Analysis
- Experimental and Measurement Methods

MSc Students must undertake a dissertation on any aspect of the natural gas business. This can be in the form of either experimental or computational based. The project can frequently relate to research work already in the school and natural gas engineering.

Graduates from the programme may be eligible to join the Institution of Gas Engineers & Managers or Petroleum Engineering which may enable them to qualify as a Chartered Engineer.

### Duration

MSc: One year full-time,  
Three years part-time.  
PgDip: nine months full-time.

### Entry Requirements

- The minimum entry requirement for those from a British University with Engineering and Scientific disciplines is 2:2 degree.
- Mature and experienced candidates or those with other suitable qualifications may be considered on an individual basis for entry to the Diploma programme.
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

### International Scholarships

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### Enquiries UK/EU

General enquiries  
T +44 (0)161 295 4545

### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme director

Dr G.G. Nasr  
g.g.nasr@salford.ac.uk  
T +44 (0)161 295 5213

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

### Philip Pillars

"I chose to study at the University of Salford because it is one of the very few schools in the world that offers me an option of getting a combined knowledge and degree from both Petroleum and the Gas engineering fields and thereby moving me closer to my dreams as a petroleum and gas engineer.

All my life, even though I had my B.Sc. in Mechanical Engineering, I have always wanted to be a petroleum engineer with particular focus on the gas sector. This is because in Africa; Nigeria, we have so much prospect for gas being the next obvious solution to our energy challenges.

The discovery of a M.Sc. Program that transformed my dreams to reality not just on the gas basis, but with great privilege of gaining priceless knowledge in the upstream; Geology, drilling, exploration and production section of the Petroleum and gas industry is magnificent.

With due respect for other courses, I feel my course is the best course to study in the University of Salford. Surprisingly all my modules have been my favorite because even though I know I paid to study here in Salford, I feel so honored and fortunate to be taught by some of the best brains of the petroleum and gas industry."



## MSc/PgDip Professional Sound and Video Technology

This programme is designed for graduates or professionals who intend to gain specialist skills across a range of future media technologies, including 3D animation, broadcast standards, audio technology and production, social media and internet streaming of media content

The programme has been developed with the advice of North West animation companies Puppetman Productions and Optic Verve.

Modules include:

- Digital Studio Production
- 3-D Animation and Simulation
- Broadcast Standards and Systems
- Research Methods
- Audio Post Production
- Social Media
- Multi-platform distribution

MSc students will also study an individual project.

### Media City

MediaCity:UK is a purpose-built media hub that is being developed at Salford Quays which will provide staff and students on the Professional Sound and Video course with vital links into the North West media industries. It is projected to provide employment for 15,500 people plus 1500 trainee posts per year in over 1000 media related businesses.

### Career Progression

Graduates from the programme can expect to take up positions in broadcast engineering, video production, live and studio sound engineering, multimedia development and web based production.

### Duration

MSc: One year full-time,  
Three years part-time.

### Entry Requirements

- Second-class honours degree. Degree must contain significant elements of media technology and production.
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

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### International Scholarships

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### Enquiries UK/EU

General enquiries  
T +44 (0)161 295 4545

### International

International-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Admissions tutor

Jos Hirst  
j.hirst@salford.ac.uk  
T +44 (0)161 295 4520

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Robotics and Automation

This programme is for students who already have a strong computer science and engineering background and wish to specialise in robotics and automation. This programme has a particular emphasis on advanced robotics, where robots are designed to operate with a degree of understanding.

Students will gain a firm grounding in control engineering and intelligent systems concepts, along with the ability to comprehend and fully specify integrated automation systems embodying intelligence, robotic and automation hardware and software, and virtual reality (VR)/simulation technologies. The programme also provides a suitable background for research in advanced autonomous systems with reference to robotics.

Modules include:

- Virtual Environment Technology
- Automation and Robotics
- Visual Simulation
- Manipulators: Theory and Practice
- Multi-modal Interfaces and Tele-presence
- Manufacturing Systems Design and Simulation
- Computational Intelligence
- Mobile Robotics.

### Career Progression

Graduates of the programme can expect to find employment in a range of industries. Robotics and automation are continuously developing topics that present many career opportunities in areas such as robotic design, control systems integration and design, factory automation, engineering management and research.

### Duration

MSc: one year full-time.  
PgDip: nine months full-time.

### Entry Requirements

- A good honours degree, or equivalent qualification, in engineering or science
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries UK/EU

General enquiries  
T +44 (0)161 295 4545

### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

### Programme leader

Dr Samia Nefti-Meziani  
s.nefti-meziani@salford.ac.uk  
T +44 (0)161 295 4540

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

### Antonio Espingardeiro Graduate from MSc Robotics and Automation



"One of the interesting factors that characterizes the University is the multicultural environment that gave me an extraordinary experience for the future. The course offers a broad knowledge about robotics from: virtual environments technology (simulation), to software engineering, industrial robotics, PLCs, mobile robots etc.

I have worked with virtual environments in order to recreate the behavior of a fluid used for a cataract eye surgery simulator. I wrote a scientific article that was published in July 2009 at WORLDCOMP'09 - The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas Nevada, USA.

Obviously you meet lots of people, from different backgrounds, different ideas and different cultures. I have made some good friends, some of them are still around and others have returned back to their countries but we still keep in touch. At the moment I'm doing a PhD where I'm focusing more on Robotics Applications for Health Care and how can we provide them to the general public. My aspiration is to become a robotics and automation manager and to write many books in the future."

## MSc/PgDip/PgCert Structural Engineering

This programme is aimed at graduates with an honours degree or relevant professional experience who want to develop their understanding and skills as structural engineers.

The emphasis is on current methodology and practice, guided by the needs of employers. The programme combines a variety of learning modes, including design assignments.

Modules include:

- Finite Element Analysis
- Bridge Engineering
- Seismic Engineering
- Timber and Masonry Design
- Steel Building Design
- Concrete Building Design
- Durability of Structures.

Modules may be studied as part of a Continuing Professional Development programme or a matching section for professional qualifications.

### Career Progression

Graduates of this programme will be well equipped to meet the challenges of the modern structural engineering industry. They may occupy pivotal appointments in prestigious building schemes and the prospect of a challenging career to provide and protect the infrastructure that underpins society.

Graduates might typically work as a structural engineer in a design office or for an engineering consultancy.

### Duration

MSc: one year full-time, two years part-time.

PgDip: nine months full-time, two years part-time.

PgCert: nine months full-time, two years part-time.

### Entry Requirements

- An appropriate honours degree such as civil engineering or structural engineering
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries

T +44 (0)161 295 4545

#### International

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)

T +44 (0)161 295 4545

### Admissions tutor

Dr Laurence Weekes

[l.weekes@salford.ac.uk](mailto:l.weekes@salford.ac.uk)

T +44 (0)161 295 4746

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Sustainable Development, Energy and Management

This programme is aimed at engineering graduates who wish to specialise in and contribute to a sustainable future.

Introductory units focus on sustainability and renewable energies and their technologies. The engineering units cover appropriate materials, energy utilisation and theory of renewable energy technologies, power generation, solar thermal and photovoltaic energy, wind energy and water power.

Coursework includes units on management techniques such as logistics and operations management, crucial to the successful implementation of new technologies.

Modules include:

- Sustainability
- Renewable Energy
- Solar, Wind and Water Power
- Operational Techniques and Management
- Energy Utilisation
- Quality and Logistics
- Integrated Transport Planning
- Appropriate and New Material Technology.

The dissertation allows students to pursue their own interests.

Many projects have been carried out in industry and in energy-related community projects. Many students continue their dissertation work into PhD studies after completion of an MSc.

### Career Progression

Graduates can expect to pursue careers in a range of organisations around the world, for example in government, research institutions, environmental bodies and construction companies.

### Duration

MSc: one year full-time, three years part-time.

PgDip: nine months full-time, two years part-time.

### Entry Requirements

- A first degree in any branch of engineering
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries

T +44 (0)161 295 4545

#### International

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)

T +44 (0)161 295 4545

### Programme leader

Dr Henry Leonard

[h.leonard@salford.ac.uk](mailto:h.leonard@salford.ac.uk)

T +44 (0)161 295 5020

### Start Month

September

### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

**Ben Burney**  
MSc Structural Engineering



"I chose to study for my MSc at Salford because it has one of the leading research centres for masonry arches, which is an area I am particularly interested in, and it has really good links with industry. Also the course is recognized by the Institute of Structural engineers which will help me to achieve Full Chartered Engineering status.

The delivery of the course was excellent, the lecturers are friendly and helpful, and the balance of lectures, coursework and examinations was great. I chose to carry on with my research into masonry arch bridges for my third semester and final dissertation.

In October I am moving to London to start work for a large multi-disciplinary engineering consultancy in their highway structures team."



## MSc/PgDip Transport Engineering and Planning

This is a programme that takes students from a wide range of relevant backgrounds and provides them with a strong grounding in the management, engineering and planning of transport infrastructure.

Transport engineering modules relate to traffic engineering and transport systems design. Transport planning modules look at traffic and travel prediction for local, regional and national studies.

Economic and environmental appraisal techniques are also covered.

Other planning topics include:

- Urban public transport development
- Land use planning
- Current policy issues such as reducing car dependency.

The programme is supported by field surveys, seminars and studio work, allowing students to experience a range of relevant computer packages.

MSc students are also required to produce a dissertation with the close supervision of an expert academic member of staff.

Graduates enjoy employment opportunities with:

- Engineering companies
- Planning departments
- Local government
- Public transport utilities
- Transport consultants.

### Duration

MSc: one year full-time, three years part-time.

PgDip: nine months full-time, two years part-time.

### Entry Requirements

- An appropriate honours degree. A wide variety of first degrees are accepted, including, for example, engineering, science, geography and social science.
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

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### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

#### Admissions tutor

Ralph Henson  
r.r.henson@salford.ac.uk  
T +44 (0)161 295 4498

#### Start Month

September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## MSc/PgDip Vacuum Engineering and Applications

(Distance-learning available)

This Master's training package is aimed at newly-qualified science and engineering graduates and process, design and sales engineers or technicians who have gained a number of years' experience in a relevant industry.

The MSc gives training in state-of-the-art vacuum engineering techniques and technology present within the industry.

Students will work closely with industry throughout the programme, allowing them to become familiar with the latest advances and developments.

Each module will take the form of a stand-alone programme, which means that industrialists can select a module or a number of modules as a short programme for their personnel or customers.

Individual modules can be taken by prior arrangement. The timescale of these will be tailored to meet industrial needs. Entry onto individual modules will depend on the recommendation of the company involved.

Industrial seminars and industrial visits are a regular feature. Students will also be expected to give seminars on subjects that will be individually selected to meet students' direct needs and interests.

Training involves the MKS VTS-1A vacuum training system and equipment donated by the major vacuum/gas flow component and system manufacturers. Students are introduced to thin film deposition, ion implantation, chemical vapour deposition and analytical techniques such as scanning/transmission electron microscopy, x-ray diffraction and mass spectrometry.

### Duration

MSc: one year full-time, two years part-time .

PgDip: nine months full-time, two years part-time, distance-learning.

### Entry Requirements

- MSc: A first or second-class honours degree in a science or engineering discipline
- PgDip: A third-class honours degree or at least five years' relevant industrial experience
- On successful completion of the PgDip students may transfer to the MSc
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

For the latest information on fees, scholarships and bursaries please refer to [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk).

### International Scholarships

See page 44

### Enquiries

#### UK/EU

General enquiries  
T +44 (0)161 295 4545

#### International

international-enquiries@salford.ac.uk  
T +44 (0)161 295 4545

#### Programme leader

Dr Richard Pilkington  
r.d.pilkington@salford.ac.uk  
T +44 (0)161 294 4176

#### Start Month

September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

## Student Profile

Sebastian Reid is currently a consultant with AECOM specialising in transportation engineering. He graduated from the University of Salford in 2007.



"I chose to study the MSc Transport Engineering and Planning programme because it had an excellent reputation and is accredited by the Institution of Civil Engineers. I previously studied a BSc in Civil Engineering at Salford and knew the staff, modules and environment would be excellent.

The course covered a wide range of subjects from Transport Policy and Modelling to Statistical and Probability Methods to Detailed Transport Engineering. The expertise I gained across this broad range of areas has put me in very good position in my career.

One of my favourite parts of the course were the engineering presentations. This gave students the ability to have presentations about specific topics covered on the syllabus by past students who are now in senior positions. Not only were they interesting but they enabled me to form contacts with external companies, one of which I am now working for now.

My time at Salford was excellent; its city campus in a park setting has to be one of its selling points. I have fond memories of relaxing in Peel Park at lunchtime before getting back to afternoon revision and group work sessions. I really miss it actually....."



## MSc/PgDip/PgCert Water, Energy and Waste

The programme is aimed at graduates who want to develop or advance their knowledge and understanding of water resources, energy and waste management. The emphasis is placed on current methodology and practice, guided by the needs of employers.

This MSc is part of the Research Institute which scored the highest possible rating (6\*) in the most recent UK government Research Assessment Exercise.

This programme responds directly to the needs of the environmental technology and services sector, which is perceived to be one of the largest industrial growth sectors in both developed and developing countries, with an estimated global worth of \$500 billion. The UK market share of this figure is 4.7%, forecast to grow by 73% per year by 2010.

Modules include:

- Sustainability
- Renewable Energy
- Solar, Wind and Water Power
- Quality and Logistics
- Operations Techniques and Management
- Waste Management Technology
- Sustainable Waste Management
- Water and Wastewater Treatment.

### Career Progression

Graduates of this programme will be equipped to meet the demands of industry in the areas of waste management, clean technologies, contaminated land remediation, low carbon energy and water treatment, undertaking roles within a consultancy, water and energy utilities or governmental and non-governmental agencies.

### Duration

MSc: one year full-time, two years part-time.

PgDip: nine months full-time, two years part-time.

PgCert: nine months full-time, two years part-time.

### Entry Requirements

- An appropriate honours degree in civil or environmental engineering, urban and regional planning, architecture or quantity surveying
- Applications from students with non-standard academic qualifications and/or commercial experience are welcomed
- International students must provide evidence of proficiency in English – IELTS 6.0 band score or a score of TOEFL at 550 or above (232 computer-based) with a TWE of 4.0 or above are proof of this.

### Financial Information

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### International Scholarships

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### Enquiries

#### UK/EU

General enquiries

T +44 (0)161 295 4545

#### International

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)

T +44 (0)161 295 4545

#### Programme leader

Dr Gareth Swift

[g.swift@salford.ac.uk](mailto:g.swift@salford.ac.uk)

T +44 (0)161 295 4835

#### Start Month

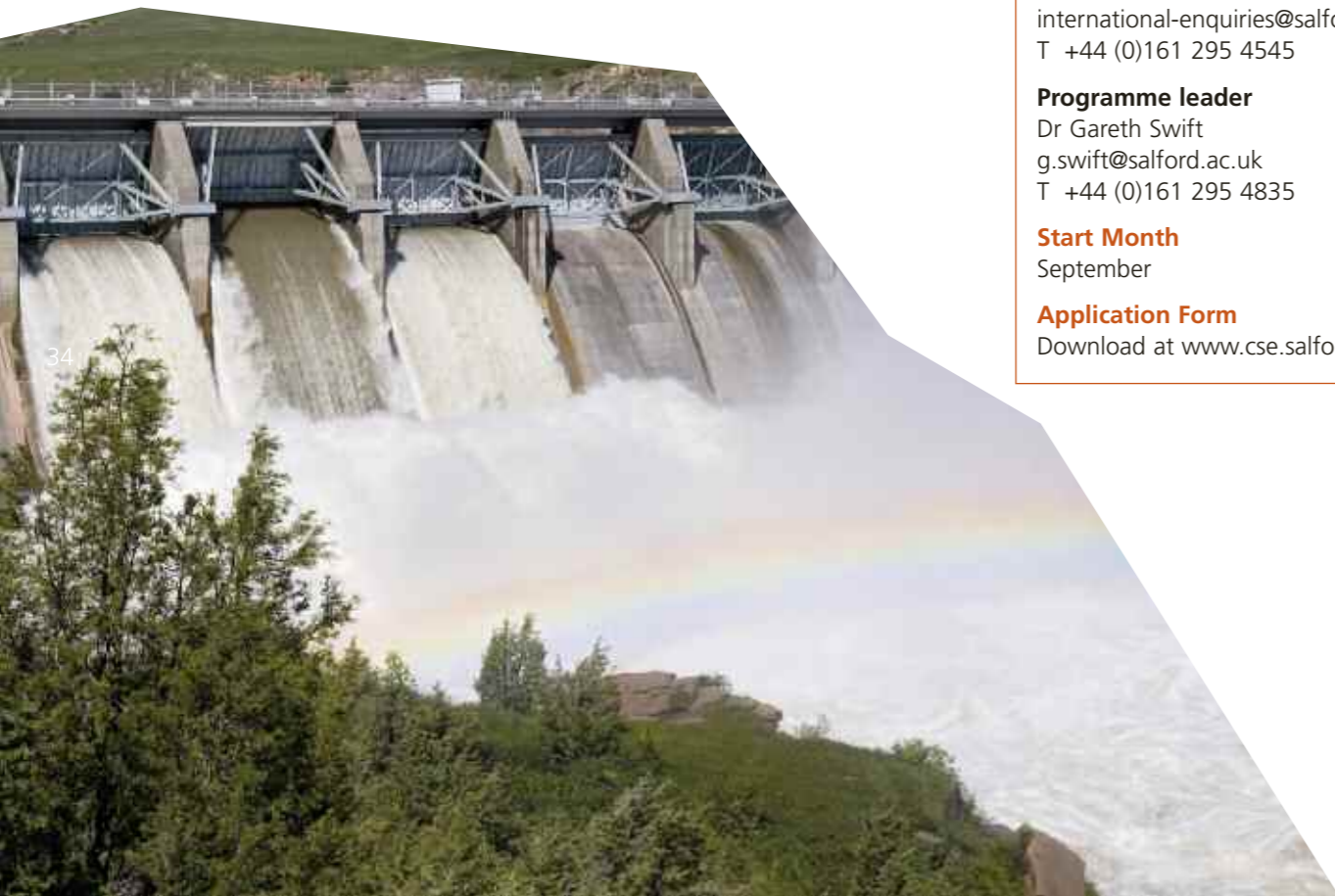
September

#### Application Form

Download at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)



research in  
the school  
of computing, science  
& engineering





## Research in the School of Computing, Science & Engineering

World class facilities are the basis for the delivery of postgraduate research activity in the School of Computing, Science & Engineering (MPhil, PhD and postdoctoral studies). Our research ethos is one of solving 'real world' problems in collaboration with industry and commerce. The success of our real-world focus and interdisciplinary ethos was confirmed in the 2008 Research Assessment Exercise (RAE), which placed Salford in the top third of UK universities for research (in terms of Research Power). 83% of work submitted was rated as 'internationally recognised' (2\* and above) and 43% of work was rated as 'world-leading' (4\*) or 'internationally excellent' (3\*).

Research Centres aligned to disciplines within our School include:

- Control and Systems Research Centre
- Engineering Research Centre
- Materials and Physics Research Centre
- Acoustics Research Centre
- Computer Networking and Telecommunications Research Centre
- Data Mining and Pattern Recognition Research Centre
- Virtual Environments and Future Media Research Centre

The focused research areas of each centre follow. For more details on your area of interest please use the contact details after each research centre below or use the following admissions contacts.

**Ruth Breckill**  
r.breckill@salford.ac.uk  
T +44(0) 161 255 5262

**Nathalie Audren Howarth**  
n.audren@salford.ac.uk  
T + 44 (0) 161 295 5278

## CASE Control and Systems Research Centre

The CASE Centre for Control and Systems Research brings together a wealth of expertise that covers wide areas of advanced control and system engineering, and the core academic members of staff at the centre are internationally recognized researchers. Research at the centre is well funded, with support from EPSRC, TSB, DoH, MoD, Royal Society, EC, as well as excellent links with industry. Our research excellence means that we have not only the highest calibre academics but also the first class facilities to support the leading edge research projects for both post-graduate studies and post-doctoral research. The main research themes of the Centre are:

- **Control Engineering** – Research at the centre is at the forefront in pursuing new ideas and theoretical advances in Fault Tolerant Control, Advanced Condition Monitoring, Data Fusion, Artificial Intelligence, and System Optimisation.

- **Railway Research** – The centre carries out world leading research in Active Wheelset Steering, Vehicle Dynamics and Control, Wheel Slip/Slide Control, Adhesion detection, Fault Detection and Isolation (FDI) and Intelligent Measurement.
- **Automotive/Aeronautical Research** – Research Excellence in the area includes Electric and hybrid vehicles, X-by-Wire, Integrated Traction and Vehicle Dynamics Control, Energy/Power Management, and Flight Dynamics and Control
- **Robotics** – Salford University has a long and world-wide reputation in robotics research. Current activities are focussed in the area of Machine Learning and Artificial Cognitive Systems in addition to the development of Industrial Robots and Automation Systems.

- **Energy and Electrical systems** – We are specialised in Electrical architectures, Electrical machines/Actuators and Drives, Power electronic energy converters, Distributed generation, Energy efficiency and multi-objective optimization.
- **Biomedical Research** – We apply our expertise in engineering and computing to solve biomedical problems. This includes work on: electrical muscle stimulation for those with partial paralysis; medical imaging and intelligent data analysis; rehabilitation robotics; advanced prosthetics; and the mathematical modelling and simulation of neuro-musculo-skeletal systems.

**Contact:**  
**TX Mei**, Professor of Control and Mechatronics.  
Director of CASE Centre  
**t.x.mei@salford.ac.uk**  
**T +44 (0)161 295 3715**

## Engineering Research Centre (ERC)

The Engineering Research Centre is a multidiscipline team with international reputation, comprising of both experimental and computer modelling researchers across the field of: Sprays, Petroleum, Gas Engineering, Structure, Geotechnical, Hydraulics, and Transport.

**Spray Research Group (SRG)**  
The Spray Research Group (SRG) expertise covers the production of sprays, atomiser design and turbulent spray structures. The group, with international reputation, applies experimental and computational modelling techniques to fundamental and industrial and commercial application of sprays to, for example:

- Descaling of petroleum and gas well head tubing, production piping and vats.
- Decontamination and cooling of equipment and personnel.
- Medical, nasal and other medical sprays.

- 'Green' Aerosol, Atomiser and Combustion fuel injector design.

### Civil Engineering Research Group (CERG)

Civil engineering research is focussed around four main areas, namely transportation engineering, structural engineering, geotechnical engineering and hydraulics. The group undertakes research under the following themes:

#### Structural engineering

- novel membrane systems for structural glass;
- masonry arch bridge stability and assessment;
- shear capacity of carbon reinforced concrete beams
- dynamic behaviour of integral bridges

#### Geotechnical engineering

- physical and numerical modelling to examine the role of backfill in arch bridge behaviour;
- novel offshore foundation systems;

- application of geosynthetics in the design of soil structures;

#### Hydraulics

- application of genetic algorithms to water distribution networks;
- developing methods to manage water quality in water distribution networks;
- leak detection in pipe networks using slow transient data and genetic algorithms;

#### Transportation

- highway network analysis;
- modelling on-street parking operations;
- simulation of traffic operation at motorway roadworks & ramp metering/weaving areas;

#### Contact:

**Professor G G Nasr**  
Head of Engineering Research Center (ECR)  
**g.g.nasr@salford.ac.uk**  
**T +44 (0)161 295 5213**

## Materials and Physics Research Centre

Members of this large and prestigious Research Centre are drawn from applied, computational and theoretical areas of Physics, Chemistry, Biology and Mathematics. Approaching 50 staff from this Centre were submitted in the 2008 RAE. 85% of work was judged as 'internationally recognised' (with 50% 'world-leading' and 'internationally excellent'). Research includes:

- **Applied Photonics & Laser Applications.** Laser-induced-breakdown spectroscopy, nanomaterials, photosensitivity, holography, photonic crystals, thin films, and theory of nonlinear effects in lasers, devices and medicine.
- **Atomic Collisions & Ion-Beam Physics.** Single-ion impacts, electron microscopy, growth and annealing impact damage, shallow implantation and film deposition, bubbles and nano-cavities, and ion-beam plasmas.

- **Chemical Physics & Biophysics.** Growth, synthesis and properties of thin films, transition metals, precursors, crystals, biomaterials and interfaces. Techniques include chemical vapour deposition processes, simulations and theory.

- **Energy & Hydrogen Storage.** A range of energy materials are investigated including solar energy photovoltaics and nuclear materials. A particular research focus resides in new hydrogen storage materials.

- **Magnetism & Nanomaterials.** Magnetic, electronic and structural properties of metallic alloys, amorphous materials, biological nano-magnets, thin films, nano-crystals, superconductors and nano-wire systems.

- **Materials Characterisation & Modelling.** First principles atomistic modelling is employed to predict novel material properties. Structural analysis and material property characterisation includes extensive central facility usage.

- **Nonlinear Science & Applied Mathematics.** Discovery and analyses of new phenomena involving waves in materials and particle phenomena. Work involves fractals, spatiotemporal solitons, vortices, patterns and chaos.

#### Contact:

**Dr Graham S McDonald**  
Head of the Materials & Physics Research Centre  
**g.s.mcdonald@salford.ac.uk**  
**T +44 (0)161 295 5079**

## The Acoustics Research Centre (ARC)

The ARC at Salford has over 35 years' proven track record of high quality research in acoustics. Our synergy between research, teaching, and commercial works has enabled the Centre to establish its leadership in building, environmental, and audio acoustics. Its activities are backed up by an extensive range of state-of-the-art acoustics facilities, including anechoic chambers, accredited transmission suite, international standard listening room, accredited calibration laboratory, laser and holographic systems, and extensive environmental noise measurement facilities.

The Acoustics Research Centre's world leading research was recognised by the UK Research Assessment Exercise (RAE). The ARC achieved the top research rating of 6\* in RAE 2001. In 2008, the Centre, together with colleagues from other related research groups at Salford, again finished top in Research Fortnight's 'Research Power' table in the submission to the

'Architecture & the Built Environment', with 90% of our research graded at international standard and 25% at world-leading standard.

The Centre currently has 16 research active staff and 26 PhD students, and a current portfolio of research grants totalling over £4M. Our staff has significant, leading international presences including: Associate Editors of international journals, Applied Acoustics and Acta Acustica, Co-Chair of CIB Working Commission W051 on Acoustics and President-Elect of the UK Institution of Acoustics. Examples of our world leading research include our work in diffuse reflection modelling and standardisation of surface diffusion and scattering coefficients in room acoustics. The following list is a representation of our main research topics:

- Architectural Room Acoustics Modelling & Simulation
- Acoustic Performance of Building Elements

- Materials to Improve Acoustics
- Outdoor sound propagation and Environmental Noise Assessment
- Soundscape
- Acoustics Remote Sensing Technology
- Active and Passive Noise Control
- Headphone and Loudspeaker Technology
- Sound Quality and Speech Intelligibility
- Clean Audio Technology
- Audio and Broadcasting Media
- Acoustic Virtual Acoustics Prototyping
- Digital Signal Processing and Neural Network
- nD modelling of the built environment

### Contact:

**Professor Y.W.Lam**  
y.w.lam@salford.ac.uk

## Data Mining and Patterns Recognition Research Centre

In 2008, the Centre Data Mining and Patterns Recognition Research Centre, together with colleagues from other related research groups at Salford, finished in the top 10 research groups in the Research Fortnight's 'Research Power' table in the submission to the Library and Information Management panel, with 75% of our research graded at international standard and 25% at world-leading standard.

The Data Mining and Patterns Recognition Research Centre is developing novel methods and systems for the analysis and recognition of images and other data, learning behaviours and causal models that have a wide range of potential applications including prediction of credit ratings, restoration of historical documents, medical diagnosis, programme ratings, semantic tagging, segmentation of types of viewers and their behaviours, text mining and retrieval, intelligent scheduling, user modelling, and as embedded self-learning components in intelligent agents.

Examples of current projects utilising the developed novel scientific methods include the EU funded IMPACT project that focuses on digital restoration of historical documents, application of machine learning for market segmentation, development of a model capable of learning the behaviour of a Gas Turbine Power plant, semantic text mining in Arabic, evaluation of trust worthiness of web sites, application of inductive logic programming for discovering the mechanisms that regulate gene expressions and use of machine learning for credit scoring for the sub-prime market.

The research themes of the data mining and patterns recognition research centre include but are not limited to:

- Temporal data mining
- Cost sensitive decision trees
- Symbolic machine learning and Bayesian networks

- Application of data mining techniques in domains such as Finance, Biology and Health Care.
- Information extraction and retrieval applied to English, French and Arabic Languages
- Semantic search engines and ontologies
- Semantic web services
- Inductive Logic Programming
- Document Image Analysis and Image enhancement
- Digital Libraries and Document Digitisation Pipelines
- Video Analytics for Surveillance
- Character Recognition
- Pattern Analysis / Recognition
- Image Analysis / Understanding

### Contact:

**Dr Farid Meziane**  
F.Meziane@salford.ac.uk

## Computer Networking and Telecommunications Research Centre

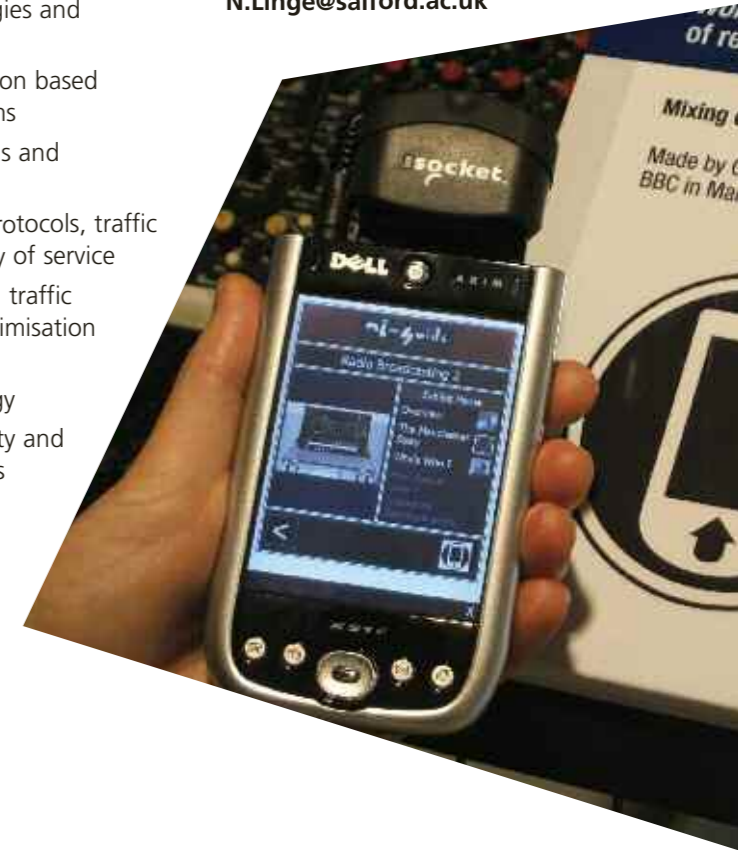
The Computer Networking and Telecommunications Research Centre undertakes both pure and applied research in the fields of computer networking, telecommunications and information security. Much of this work is carried out in partnership with industry and is funded through both UK and European research grants. For example, our work in context aware systems has resulted in the development of a new multimedia information system called mi-Guide that has been deployed at the Museum of Science and Industry and we are currently using networking technologies to monitor energy usage in homes and to help reduce people's carbon footprints. In addition, members of the group are actively involved in a range of public engagement programmes which aim to raise the awareness and importance of our subject for the general public and in schools.

The main research themes of the centre include:

- Wireless technologies and sensor networks
- Context and location based information systems
- Intelligent buildings and energy monitoring
- Communication protocols, traffic routing and quality of service
- Network planning, traffic modelling and optimisation
- Ubiquitous and ambient technology
- Information security and computer forensics
- Public Awareness

### Contact:

**Professor Nigel Linge**  
N.Linge@salford.ac.uk



## Virtual Environments and Future Media Research Centre

The Centre for Virtual Environments was founded in 1994 by the University of Salford, in partnership with the Engineering and Physical Science Research Council (EPSRC). With further major expansion in 1997, and consistent success and funding support over the last ten years the centre has consolidated its position as an area of research excellence.

The CVE vision is to lead research in virtual environment technology and fuel its take up through a focused program of research, teaching and technology transfer, maintaining its excellent research rating by being a centre of excellence, unique in Europe, able to meet diverse application needs through the widest range of collaborative, intelligent, immersive, pervasive and augmented reality technologies, and the deepest knowledge of how to apply them.

The main themes of the centre include:

- Studying the impact of visual technologies on the experience and performance of people
- Empathy, rapport and engagement with virtual humans
- Interplay between people, places and technology
- Dealing with complexity in visualisation

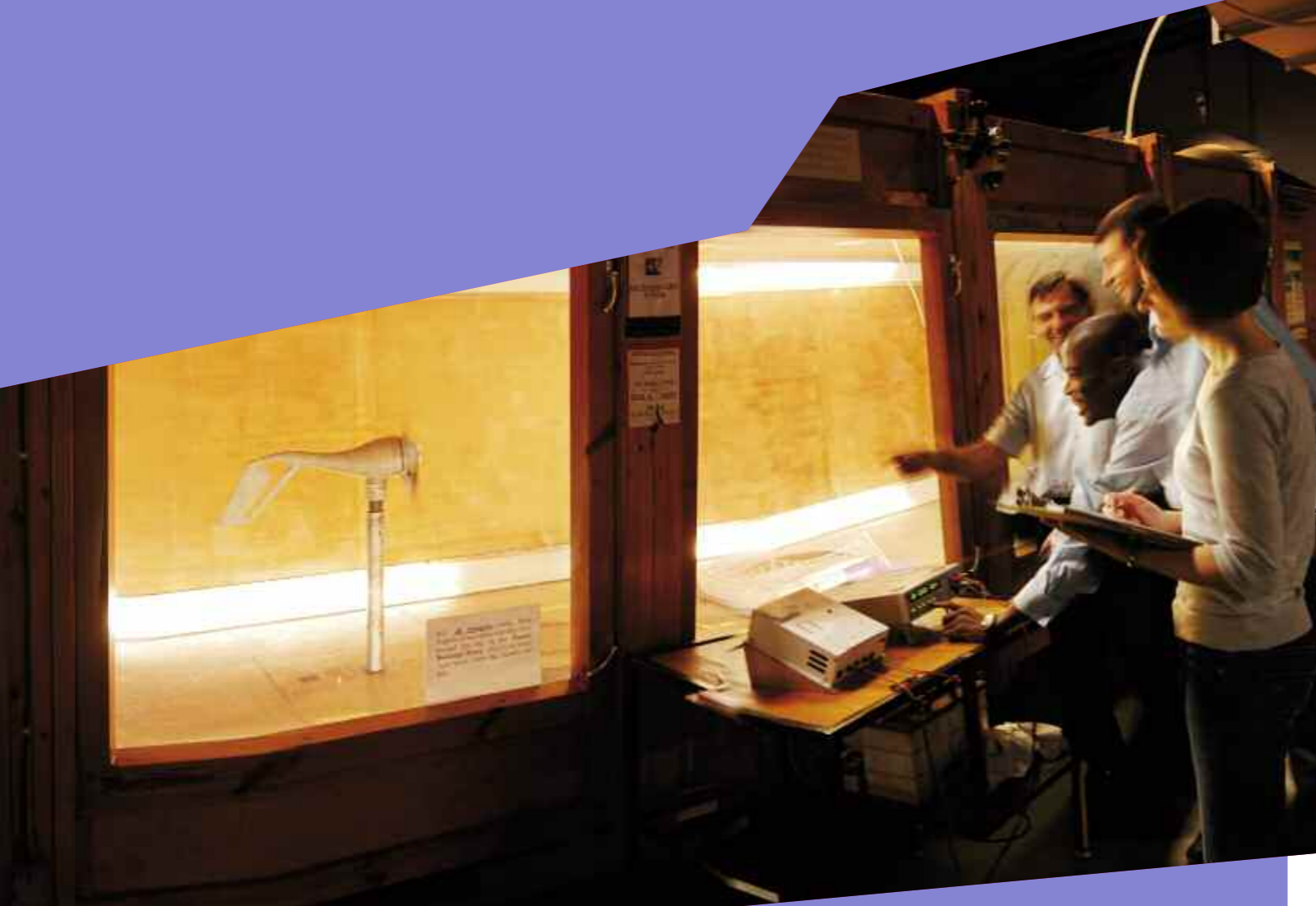
Technologies include: Immersive Collaborative Virtual Environments, Advanced video conferencing, Second Life, Immersive projection, Mobile devices and Tesla.

### Contact:

**Professor David Roberts**  
D.J.Roberts@salford.ac.uk

There are many applications of virtual environments, and the centre has specific expertise in the areas of medical visualisation, rehabilitation, disabilities, reproducing the face-to-face meeting across a distance, distance learning and design of visualisation spaces.





# business & enterprise in the school of computing, science & engineering

The **School of Computing Science & Engineering** has a proven track record of delivering high quality solutions and a first-class service to businesses, public, third sector and community organisations for over 20 years and strives to deliver relevant services that meet the needs of employers and employees.

With its real world focus, the School has an extensive portfolio of services aimed at addressing the needs of business. Areas of interest include:

- **Workforce Development and Work Based Learning**  
To ensure that the workforce of today is highly skilled and well-placed to meet the challenges of increasingly competitive global markets, the School can develop flexible training programmes which can be delivered at the University or in the workplace.
- **Continuing Professional Development (CPD) and Short Courses**  
The School has a range of existing short course and CPD offerings and is continually developing these to meet the needs of the business community. The School is happy to work with organisations to develop bespoke courses and there is the option to accredit existing in house provision.

- **Knowledge Transfer Partnerships**  
Knowledge Transfer Partnerships are collaborations between academics, a company that needs their expertise and a graduate recruited to work on a project central to the needs of the business, and its development. Together they devise and manage a 12-36 month project, which is of strategic importance to the company, and is intellectually challenging and of business relevance to the academic. A highly skilled graduate known as a KTP Associate is then recruited to manage the project on a day-to-day basis.

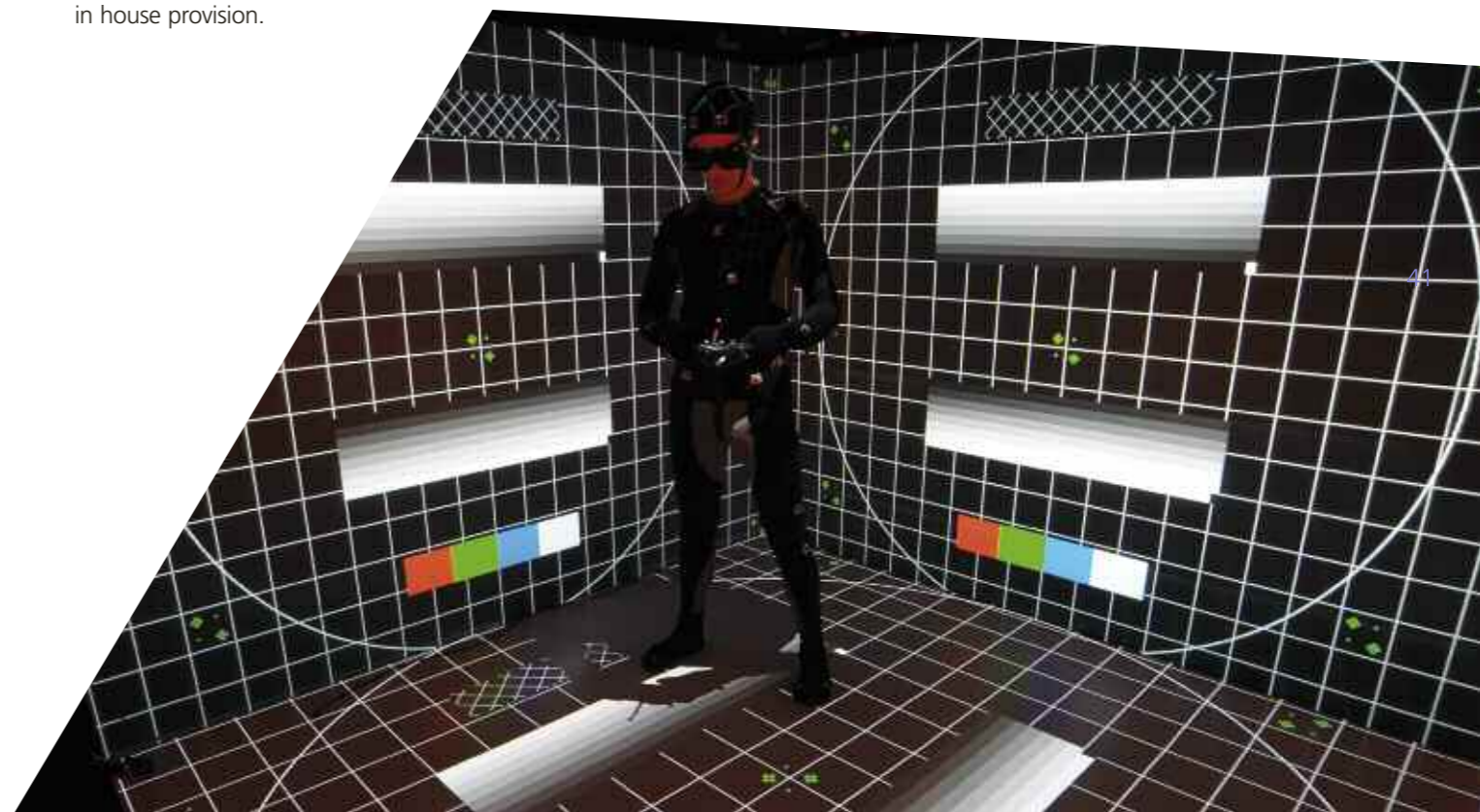
- **Consultancy**  
The Schools academics and practitioners have a formidable range of skills, knowledge and experience which ensures they can offer you a service second to none. Not least, we can create a team of academics from across the whole University to ensure you are getting the best consultancy to suit your requirements. Areas of expertise in CSE include acoustics, industrial product design and development, new materials, interactive media, datamining to name but a few. Contact us to find out more.

- **Collaborative Research and development**  
Through our internationally accredited researchers and academics who are leaders in their fields, businesses can gain access to the University's world leading research facilities.

- **State-of-the-art Facilities and Equipment**  
Our laboratories and research facilities are world leading and state-of-the-art and investment in the latest testing equipment means that we have industry leading facilities; these are supported by our professional and technical expertise. Facilities include:

- Acoustics Labs
- Analytical Suits
- Rapid prototyping
- Structural Testing Laboratories
- Thermal Laboratories
- Rapid prototyping
- Wind Tunnels
- Virtual Environments

For the full range of services in our School please visit:  
[www.star.salford.ac.uk](http://www.star.salford.ac.uk)





# international students

There are nearly 3,000 international students from 119 countries around the world that have chosen to study at Salford

## Getting to the University of Salford

The best way to get to the University of Salford is by taking a flight to Manchester International Airport either directly from your home country or via one of London's airports.

The University operates a 'meet and greet' service so that you will be met by a University representative when you arrive at the airport providing you arrive at one of the main entry points in the academic year.

We offer an online booking service where you be able to give your flight arrival details. You will receive free transport from the airport to your accommodation.

You can also get to the University from the airport by train that will take you direct to the station on the University campus within 30 minutes, or you can take a taxi.

Full details of what to do when you arrive in Salford will be posted to you before the start of your programme.

## English language requirements

During your course, all tuition, examinations and subject materials will be in English, so in order to benefit from a programme of study you will be required to demonstrate a good understanding of the English Language. You are required to have achieved an appropriate qualification before joining the University of Salford which might include one of the following:

- International English Language Testing Service (IELTS) test, administered by the British Council. You will need to achieve an overall band score of 6.0, although students may be offered a place on the condition of attending a pre-sessional English Language programme.

For further details visit [www.languages.salford.ac.uk](http://www.languages.salford.ac.uk)

- A Test of English as a Foreign Language (TOEFL), administered by the Educational Testing Service, USA. You will need to achieve a score of at least 550 (paper based) or 213 (computer-based). The original document will need to be sent directly to the University, quoting Institution Number 0515.

## International Welcome Week and Orientation Programme

This free programme runs to assist you during your first week at Salford and to help you settle in to the University community. All new International students will be sent a leaflet prior to arrival giving details of the programme and explaining how to book a place.

The programme offers coffee mornings and information sessions as well as help with practical things like shopping and opening bank accounts.

There will be a full social programme of events in the evenings and some daytime events that will assist you in meeting new people and making new friends. We will offer individual support and help with your enquiries and confusions, and help you to become more familiar with the local environment.

## Student Support

We offer a range of support services for students, including visa and immigration advice, general and financial advice and support for students with disabilities. Further details can be found at [www.isite.salford.ac.uk](http://www.isite.salford.ac.uk)

The International Relations Office can help with any further queries you might have, including fees, and application procedures. Please contact them for further details using the contact details on the left.

For more information about the required proficiency in English and any other international student enquiry please contact the International Enquiry Service:

[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)  
T +44 (0)161 295 4545 option 2



# how to apply

## scholarship and bursary scheme

### for international students - 2010 entry

At Salford we recognise the effort you've put in to starting your career and we want to support you to achieve your potential. We think that studying at a world class university together with other high-achievers will give you the best opportunity to attain the targets you set yourself.

That's why the University of Salford now has one of the largest scholarship and bursary schemes in the UK, with an estimated total value of £2 million. The awards are there to help you to get the education you deserve and to attract the best students to the University.

The new scheme is open to all full time PGT international students applying for entry in September 2010. It guarantees a discount of at least £1000, but you could qualify for as much as £5000.

The new awards are:

**The International Postgraduate Bursary** – worth up to £1000

**The International Excellence Scholarship** – worth up to £2000

**The Vice Chancellors International Postgraduate Scholarship** – worth up to £5000

We will automatically consider you for an award when you apply for a place at the University – there is no need to apply for an award separately – and there is no scholarship application fee.

There are lots of other scholarships and bursaries available for specific courses or available from external organisations. To find out more about these contact [international@salford.ac.uk](mailto:international@salford.ac.uk).

**Our existing scholarships and bursaries will continue to apply until September 2010. For full terms and conditions see terms and conditions.**

### Taught MSc courses

Application forms can be downloaded from our website and the completed form can be sent **by post** to:

Postgraduate Admissions Office  
University of Salford,  
Salford, Greater Manchester, M5 4WT. UK

**Or email** an electronic version to:  
[pg-admissions@salford.ac.uk](mailto:pg-admissions@salford.ac.uk)

**Or apply online** at [www.cse.salford.ac.uk](http://www.cse.salford.ac.uk)

#### Please note:

- If English is not your first language, you must provide evidence that you have met the University's English Language Entry Requirements (IELTS 6.0).
- You must provide transcripts of your UG study.
- Provide two references to support your application.
- Details of any courses yet to be completed.

You will be notified once we have processed your application, you will then be sent either:

- **Conditional offer**  
– further information required from you
- **Alternative offer**  
– we have offered another course instead of your first choice course
- **Unconditional offer**  
– your application is successful
- **Unsuccessful**  
– your application did not meet the entry requirements

### Research applications

To apply for your postgraduate research place, you will need to complete a postgraduate research application form online at [www.salford.ac.uk/study/postgraduate/postgraduate-research/applying/](http://www.salford.ac.uk/study/postgraduate/postgraduate-research/applying/) and attach your research proposal.

### Contact us

**Admissions enquiries**  
[pg-admissions@salford.ac.uk](mailto:pg-admissions@salford.ac.uk)  
T +44 (0) 161 295 3306

**General enquiries**  
**International students**  
[international-enquiries@salford.ac.uk](mailto:international-enquiries@salford.ac.uk)  
T +44 (0) 161 295 4545

**UK/EU students**  
[course-enquiries@salford.ac.uk](mailto:course-enquiries@salford.ac.uk)  
T +44 (0) 161 295 4545

### How to prepare a research proposal

The research proposal is a crucial part of your application. Here are a few suggestions on what to include and what to avoid. You should also discuss your proposal with the research admissions co-ordinator of the Research Centre to which you are applying, to make sure you understand what is expected in your subject area.

When submitting an application, make sure that the specialist area you wish to study is covered by a member of staff at the University:

- Check individual staff entries on the Research Centre sites that relate to your area
- Explore staff profiles and check current research interests.

### Policy statement on equality and diversity

The University is committed to and strives for equality of opportunity for all its students and staff (existing and prospective) and will recognise and celebrate their diversity. For this statement and strategy to be made a reality, effective leadership and management will be provided and a corresponding commitment sought from every member of staff and all the student body. In practice this means that we:

- are committed to providing an environment where all people are respected and treated fairly regardless of irrelevant characteristics or distinctions
- will develop a culture in which diversity is celebrated
- will not discriminate unfairly or illegally against anyone and will take positive action to promote equality, diversity and fair access
- embed equality and diversity at the heart of our mission and values; this will include taking action against individuals who behave in a discriminatory manner

# accommodation

Salford students pay amongst the lowest rents in the country, with Salford being named as one of the cheapest universities in the country for accommodation in the most recent National Union of Students Accommodation Costs Survey

Mathias Court is a University-owned site close to the main campus that is dedicated to postgraduate students. All flats are offered on a 50-week let, but students who wish to have a shorter contract period may apply for accommodation at any of the University's other sites.

The accommodation comprises flats for either two or three students, each having their own single study bedroom and sharing kitchen and bathroom facilities. Each single study bedroom is equipped with a wardrobe/ cupboard unit, bed, carpet, curtains, desk and easy chair.

Kitchens are fully-fitted and equipped with microwave oven, cooker with separate grill, and a fridge-freezer. Students supply their own cooking utensils and bed linen. Bathrooms have WC and bath. Launderette facilities are situated on the ground floor of the block.

Accommodation is also available for married students, or students with families.

For information and to book your accommodation please contact the Accommodation Office using the details below.

Contact Details:  
**T +44 (0)161 295 4167**  
**F +44 (0)161 295 5554**  
**accommodation@salford.ac.uk**  
**www.accommodation.salford.ac.uk**

# visiting the university

If you want to come and see for yourself what we are really like, take one of our weekly guided tours around the University.

Visit [www.salford.ac.uk/study/visit](http://www.salford.ac.uk/study/visit) to book onto a tour.

You can also book a **personal appointment** by using the named contact details for your course in this brochure.

