UNIVERSITY OF LIVERPOOL

Biomedical Engineering with Management MSc (Eng)

COURSE DETAILS

- Full-time: 12 months

KEY DATES

- Apply by: 29 August 2025
- Starts: 22 September 2025

Course overview

Discover the principles and technologies that have led to biomedical engineering becoming essential in healthcare, medicine and human biology. Suitable for graduates in engineering or physical sciences, this master's degree combines knowledge of biomechanics and fluid mechanics in the human body with engineering design innovations and a modern management toolkit.

INTRODUCTION

Biomedical engineering, the application of engineering knowledge and skills to healthcare, medicine and human biology, is the fastest growing engineering discipline worldwide.

Contributing to the future development of artificial organs, medical devices and novel treatments, the School of Engineering is home to internationally recognised, ground-breaking research in biomedical engineering. This programme harnesses this expertise in key areas around biomechanics, cardiovascular fluid mechanics, tissue engineering, biomaterials, engineering design and manufacturing.

You'll discover how to measure and analyse human movement, learn the principles of blood flow and the role of different bio-fluids in the human body, and gain an understanding of the structures and properties of materials used in medical devices.

Immersing you in computer aided design and engineering product design, we'll introduce the latest 3D tools and techniques and task you with the development of innovative products and creative solutions. We'll also focus on modern management, including examining organisational behaviour and enhancing your project management skills.

Accredited by the Institution of Mechanical Engineers, the programme includes a supervised independent research project. This provides the opportunity to enhance your skills and knowledge in an area of biomedical engineering of your choice, supported by our specialist research facilities.

WHO IS THIS COURSE FOR?

This programme is designed for engineers and physical scientists who want to develop specialist skills and knowledge in biomedical engineering and combine this with insights into effective leadership and management.

Please note: University of Liverpool engineering graduates in aerospace, mechanical or civil engineering are not eligible for this programme.

WHAT YOU'LL LEARN

- Cardiovascular fluid mechanics in the human body, including the importance of blood flow
- Biomechanics of the musculoskeletal system, including how to measure and analyse human movement
- The structures and properties of materials used in medical devices
- Applications of tissue engineering to the development of the next generation of smart-implantable medical devices
- Key principles of engineering product design
- Computer aided design methodologies, tools and techniques
- The statistical principles of radiation detectors
- Physics and biological principles which underpin medical physics and clinical engineering
- Transferable skills in problem solving, critical analysis, teamwork and communication
- Modern management tools and insights, including industrial psychology and organisational behaviour
- Fundamental techniques in project management, risk management and cost management
- Entrepreneurial concepts, activities and challenges.

ACCREDITATION

This programme is accredited by the Institute of Mechanical Engineering (IMechE), the professional body for mechanical engineers in the UK. This means that successful completion of the programme will put you on track to gain Chartered Engineer (CEng) status in the UK.

Course content

Discover what you'll learn, what you'll study, and how you'll be taught and assessed.

SEMESTER ONE

Modules MECH401 Group Engineering Design and PHYS809 Statistics span semesters one and two.

UK students are exempt from module ENGG596 Technical Writing for Engineers. EU and international students with strong English language skills may also be exempt, subject to the approval of the programme director.

If you’re exempt from ENGG596, you’ll choose an optional module in semester one in its place.

COMPULSORY MODULES

STRUCTURAL BIOMATERIALS (MATS410)

Credits: 15 / Semester: semester 1

This modules covers topics related to the structure and properties of materials that are used in medical devices, including metals and alloys, polymers and ceramics. Corrosion and polymer degradation is also covered.

COMPUTER AIDED DESIGN (MNFG604)

Credits: 7.5 / Semester: semester 1

To introduce the student to the latest 3D tools and techniques used by designers.

To develop a wider knowledge and understanding of integrated systems design.

To stimulate an appreciation of modern design and development methodologies.

TECHNICAL WRITING FOR ENGINEERS (ENGG596)

Credits: 7.5 / Semester: semester 1

To develop technical writing skills for engineers. English Language Centre deliver the module for non-native English speakers, Engineering staff deliver identical syllabus, assessments and learning outcomes for other students.

PROJECT MANAGEMENT (MNGT502)

Credits: 7.5 / Semester: semester 1

Project Management is a core skill for professional engineers of all types and a sound education in this subject area is required by the professional accrediting bodies. The knowledge and skills developed in this module will equip students for their future UG project work and for their careers ahead.
This module teaches students the theory of fundamental techniques in project management, risk management, and cost management.

In this modules student undertake a group "virtual project" in which they undertake all stages of project management involved n a major construction projects. The five virtual project tasks require students to apply their theoretical learning; and they provide an opportunity to develop key professional skills.

ADVANCED MODERN MANAGEMENT (MNGT352)

Credits: 7.5 / Semester: semester 1

The Aims of this module are as follows:

To introduce the student to various aspects of advanced modern management.

To develop a knowledge and understanding of modern management tools.

To stimulate an appreciation of management and its importance in organisational success.

GROUP ENGINEERING DESIGN (MECH401)

Credits: 15 / Semester: whole session

To present the fundamental principles of Engineering Product Design according to the Total design methodology.

To engage students in a multi-disciplinary group project to develop and justify an innovative engineering solution/product that is part of a grand challenge which is formulated from complex and uncertain factors.

To develop students team working, communication, project management, problem solving and critical evaluation skills.
To formulate a theoretical novel solution that is supported by valid evidence and meets an authentic need.

STATISTICS (PHYS809)

Credits: 7.5 / Semester: whole session

This modules provides a theoretical and practical understanding of the statistical principles involved with radiation detectors.

CARDIOVASCULAR PHYSIOLOGY AND MECHANICS (ENGG415)

Credits: 15 / Semester: whole session

This module will commence with an introduction to cardiovascular anatomy and physiology. The module will then progress to cover the behaviour of biofluids under flow will be studied with particular emphasis placed on the flow of blood ("haemodynamics"). In particular blood flow in relation to cardiovascular prostheses and devices, including heart valves, cardiac assist devices, and arterial bypass grafts, will be explored.

OPTIONAL MODULES

ADVANCED ENGINEERING MATERIALS (MATS301)

Credits: 7.5 / Semester: semester 1

This module aims to understand advanced engineering materials, focusing on non-ferrous alloys and composite materials. It covers the processing, heat treatment, microstructure and properties of Al, Ti and Ni alloys. It introduces constituent materials, manufacturing methods, test methods and mechanical response of composite materials.

INTRODUCTION TO RESEARCH ETHICS IN HEALTHCARE (MDSC403)

Credits: 7.5 / Semester: whole session

The aim of this module is to give students a grounding in research ethics giving them both the knowledge and skills in ethical reasoning and critical analysis to engage and explore issues in health-related research, and to enhance their understanding of the role of function of research, and research ethics, in the healthcare sector.

In addition, as students undertaking this module are likely to be, or go on to be, involved in health research this module will provide students with the knowledge, skills, and insight to ensure their own research endeavours are conducted in an ethically sound manner.

Using both directed and enquiry based learning students will develop their capacity for ethical reasoning and analysis in a range of ethical issues pertaining to health related research including (but not limited to):

• Theoretical models and underpinning of research ethics and ethical research
• Consent and confidentiality as applied to health related research
• Management of big data, impact of design, resource allocation implications of design within an organisation

The module is taught through a combination of seminars, lectures, and online teaching sessions and is assessed through a written assignment.

Any optional modules listed above are illustrative only and may vary from year to year. Modules may be subject to minimum student numbers being achieved and staff availability. This means that the availability of specific optional modules cannot be guaranteed.

SEMESTER TWO

Modules MECH401 Group Engineering Design and PHYS809 Statistics span semesters one and two.

You will choose one optional module in semester two.

COMPULSORY MODULES

CARDIOVASCULAR PHYSIOLOGY AND MECHANICS (ENGG415)

Credits: 15 / Semester: whole session

This module will commence with an introduction to cardiovascular anatomy and physiology. The module will then progress to cover the behaviour of biofluids under flow will be studied with particular emphasis placed on the flow of blood ("haemodynamics"). In particular blood flow in relation to cardiovascular prostheses and devices, including heart valves, cardiac assist devices, and arterial bypass grafts, will be explored.

GROUP ENGINEERING DESIGN (MECH401)

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To present the fundamental principles of Engineering Product Design according to the Total design methodology.

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To develop students team working, communication, project management, problem solving and critical evaluation skills.
To formulate a theoretical novel solution that is supported by valid evidence and meets an authentic need.

STATISTICS (PHYS809)

Credits: 7.5 / Semester: whole session

This modules provides a theoretical and practical understanding of the statistical principles involved with radiation detectors.

ENTERPRISE STUDIES (MNGT414)

Credits: 7.5 / Semester: semester 2

The module teaches the concepts of Entrepreneurship, Intrapreneurship, Company Infrastructure and Investment Proposals. It is taught using lectures, class questions, case studie sand a comprehensive coursework assignment. Successful students will have acquired knowledge and understanding at mastery level of the process and how itis executed in a modern industrial environment.

TISSUE ENGINEERING (ENGG412)

Credits: 15 / Semester: semester 2

The module will explore the understanding for the need for enhanced control of material induced biological interactions and how we can utilise novel material development and engineering techniques to control biological responses from the “bottom-up” (controlled biological interactions), developing the next generation of smart-implantable medical devices. As well as presenting fundamental concepts that are relevant to real clinical situations the module will also explore the need for cost effective solutions and viable routes for scale up and translation.

MUSCULOSKELETAL BIOMECHANICS (ENGG410)

Credits: 15 / Semester: semester 2

This module will give students an understanding of the biomechanics of the musculoskeletal system and will cover techniques used to measure and analyse body movements as mechanical systems.

OPTIONAL MODULES

SMART MATERIALS (MATS515)

Credits: 7.5 / Semester: semester 2

This module introduces students to the facilitating world of ‘Smart Materials’. The term ‘Smart Materials’ is used to define a broad collection of materials that have the in-built ability to ‘actuate’ in some way in response to external stimulus. Examples of ‘Smart materials’ include piezoelectrics, electrostrictive materials, shape memory alloys, ferrofluids, various biomimetic materials plus a host of others. This module looks at a selection of smart materials and considers the underlying reasons for the actuating behavior, key performance indicators that aid materials selection, aspects of manufacturing associated with the exploitation of the materials, plus engineering applications of these facilitating and highly useful materials.

ENERGY AND THE ENVIRONMENT (MECH433)

Credits: 15 / Semester: semester 2

This modules discusses energy generation and usage, and how they complement each other. The topics are introduced in lectures that then lead onto a case study on a specific topic.

ADVANCED ENGINEERING MATERIALS (MATS631)

Credits: 15 / Semester: semester 2

This module aims to understand advanced engineering materials, focusing on non-ferrous alloys and composite materials. It covers the processing, heat treatment, microstructure and properties of Al, Ti and Ni alloys. It introduces constituent materials, manufacturing methods, test methods and mechanical response of composite materials.

INTRODUCTION TO RESEARCH ETHICS IN HEALTHCARE (MDSC403)

Credits: 7.5 / Semester: whole session

The aim of this module is to give students a grounding in research ethics giving them both the knowledge and skills in ethical reasoning and critical analysis to engage and explore issues in health-related research, and to enhance their understanding of the role of function of research, and research ethics, in the healthcare sector.

In addition, as students undertaking this module are likely to be, or go on to be, involved in health research this module will provide students with the knowledge, skills, and insight to ensure their own research endeavours are conducted in an ethically sound manner.

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FINAL PROJECT

You will undertake your research project over the summer.

COMPULSORY MODULES

MSC(ENG) PROJECT (60 CREDITS) (ENGG660)

Credits: 60 / Semester: summer

The purpose of the project is to provide students with the opportunity to plan, carry out and control a research project at the forefront of their academic discipline, field of study or area of professional practice. The student will report findings both orally and in writing. Detailed instructions are provided in the PG handbook distributed at the outset of the programme.

Any optional modules listed above are illustrative only and may vary from year to year. Modules may be subject to minimum student numbers being achieved and staff availability. This means that the availability of specific optional modules cannot be guaranteed.

HOW YOU'LL LEARN

You'll be taught through a combination of traditional lectures and practical classes, benefitting from research-led teaching and active learning methods.

There will be a mixture of lectures, seminars, tutorials, laboratory work, demonstrations, problem-solving exercises, group projects and independent study.

HOW YOU'RE ASSESSED

You'll be assessed through a combination of written exams, class tests and coursework.

Coursework-based assignments include essays, reports, oral presentations, mini-project work, key skills exercises and a dissertation.

LIVERPOOL HALLMARKS

We have a distinctive approach to education, the Liverpool Curriculum Framework, which focuses on research-connected teaching, active learning, and authentic assessment to ensure our students graduate as digitally fluent and confident global citizens.

Careers and employability

Whether you're seeking a career designing medical devices or assistive technologies, focusing on research and development, or working in engineering management or consultancy, this MSc will prepare you for a variety of opportunities in the UK and abroad.

The programme includes a strong practical element and incorporates the latest academic and industry research, preparing you to work effectively at the forefront of engineering.

Our professional accreditation with the Institution of Mechanical Engineers means you'll graduate with a recognised qualification on the route to Chartered Engineer status.

Career support from day one to graduation and beyond

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Career planning

Our Careers Studio and career coaches can provide tailored support for your future plans.

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From education to employment

Employability in your curriculum for a successful transition

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Networking events

Make meaningful connections with like-minded professionals

YOUR FUTURE

You'll graduate from this MSc ready for a career in medical device design and manufacture, academic research, and engineering management or consultancy.

Previous biomedical engineering graduates have gone onto careers working for medical device companies, pharmaceutical companies, and the National Health Service and other healthcare providers.

Their career destinations include working for companies such as:

- 3D LifePrints
- Fusion Implants
- AstraZeneca

- National Health Service.

You'll also be well placed to pursue PhD study. Some of our previous graduates have secured fully-funded PhD studentships.

4 IN 5 **OF OUR ENGINEERING STUDENTS FIND THEIR MAIN ACTIVITY AFTER GRADUATION MEANINGFUL.**

Graduate Outcomes, 2018-19.

Fees and funding

Your tuition fees, funding your studies, and other costs to consider.

TUITION FEES

UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)	
Full-time place, per year	£13,300

International fees	
Full-time place, per year	£29,900

Fees stated are for the 2025-26 academic year.
Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support.

- You can pay your tuition fees in instalments.
- All or part of your tuition fees can be funded by external sponsorship.
- International applicants who accept an offer of a place will need to pay a tuition fee deposit.

If you're a UK national, or have settled status in the UK, you may be eligible to apply for a Postgraduate Loan worth up to £12,167 to help with course fees and living costs. **Learn more about fees and funding**.

ADDITIONAL COSTS

We understand that budgeting for your time at university is important, and we want to make sure you understand any course-related costs that are not covered by your tuition fee. This could include buying a laptop, books, or stationery.

Find out more about the additional study costs that may apply to this course.

SCHOLARSHIPS AND BURSARIES

We offer a range of scholarships and bursaries that could help pay your tuition and living expenses.

We've set the country or region your qualifications are from as United Kingdom. Change it here

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POSTGRADUATE GLOBAL ADVANCEMENT SCHOLARSHIP – ACHIEVEMENT

- International students

If you're an international student joining a master's course with us, you could be eligible to receive a tuition fee discount of £2,500, based on your prior academic achievement, choice of course, and you not having studied with us before.

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POSTGRADUATE GLOBAL ADVANCEMENT SCHOLARSHIP – COUNTRY

- International students
- Antigua and Barbuda
- Australia
- Bangladesh
- Barbados
- Belize
- Brunei
- Canada
- China
- Cyprus
- Dominica
- Egypt
- Ghana
- Grenada
- Guyana
- India
- Jamaica
- Japan
- Kenya
- Malaysia
- Mauritius
- Mexico
- New Zealand
- Nigeria
- Pakistan
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and The Grenadines
- Singapore
- South Africa
- South Korea
- Sri Lanka
- Tanzania
- Thailand
- Trinidad and Tobago

- Turkey
- Uganda
- Vietnam

If you're an international student joining a master's course with us, you could be eligible to receive a tuition fee discount of £2,500, based on your nationality, choice of course, and you not having studied with us before.

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GRADUATE LOYALTY ADVANCEMENT SCHOLARSHIP

- Home and international students

If you're a University of Liverpool graduate starting this master's degree with us, you could be eligible to receive a loyalty discount of up to £2,500 off your master's tuition fees.

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CHILEAN NATIONAL AGENCY FOR RESEARCH AND DEVELOPMENT (ANID) SCHOLARSHIP

- International students
- Chile

If you're a Chilean student joining a master's degree, you could be eligible to apply for a 20% discount on your tuition fees with a Chilean National Agency for Research and Development (ANID) Scholarship. Scholarship.

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CHEVENING SCHOLARSHIPS

- International students
- Albania
- Algeria
- Anguilla
- Antigua and Barbuda
- Argentina
- Australia
- Azerbaijan
- Bangladesh
- Barbados
- Belize
- Bolivia
- Brazil
- British Virgin Islands
- Brunei
- Canada
- Cayman Islands
- Chile
- China
- Columbia
- Costa Rica
- Cuba
- Dominica

- Ecuador
- Egypt
- El Salvador
- Ghana
- Guatemala
- Guyana
- Honduras
- Hong Kong
- Iceland
- India
- Indonesia
- Iraq
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Libya
- Malaysia
- Mauritius
- Mexico
- Moldova
- Mongolia
- Montserrat
- Morocco
- Nepal
- New Zealand
- Nicaragua
- Nigeria
- Pakistan
- Panama
- Paraguay
- Peru
- Philippines
- Russia
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and The Grenadines
- Serbia
- Singapore
- South Africa
- South Korea
- South Sudan
- Sri Lanka
- Sudan
- Taiwan
- Tanzania
- Thailand

- Trinidad and Tobago
- Turkey
- Turks and Caicos Islands
- Uganda
- Ukraine
- Uruguay
- Venezuela
- Vietnam
- Zimbabwe

If you're an international student from an eligible country, joining a one-year master's course, you could be eligible to apply for a Chevening Scholarship. If your application is successful, you could expect to have your master's fees paid, up to a maximum of £18,000, and receive additional help with living costs.

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CONSEJO NACIONAL DE CIENCIA Y TECNOLOGIA (CONACYT) AWARD

- International students
- Mexico

If you're a Mexican student joining a master's degree, you could be eligible to apply for a 30% discount on your tuition fees with a CONACyT Award.

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FUND FOR THE DEVELOPMENT OF HUMAN RESOURCES (FIDERH) AWARD

- International students
- Mexico

If you're a Mexican student joining a master's degree and you're in receipt of a FIDERH graduate loan, you could be eligible to benefit from a 20% discount on your tuition fees with a FIDERH Award.

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FUNED AWARD

- International students
- Mexico

If you're a Mexican student joining a master's degree and you're in receipt of a FUNED loan, you can apply to be considered for a 20% tuition fee discount. A total of up to 50 awards will be available to master's and PhD students per academic year.

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FUNED SCHOLARSHIP FOR WOMEN IN STEM SUBJECTS

- International students
- Mexico

If you're a female Mexican student joining an eligible master's course in a science, technology, engineering or maths (STEM) subject and you're in receipt of a FUNED loan, you can apply to be considered for a 25% tuition fee discount. Up to five awards are available in each academic year.

- ## HONG KONG GRADUATE ASSOCIATION & TUNG FOUNDATION POSTGRADUATE SCHOLARSHIPS

  - International students
  - China
  - Hong Kong

  If you're a master's student from Hong Kong or the People's Republic of China who can demonstrate academic excellence, you may be eligible to apply for a scholarship worth up to £10,000 in partnership with the Tung Foundation.

- ## HRH PRINCESS SIRINDHORN UNIVERSITY OF LIVERPOOL SCHOLARSHIP (THAILAND)

  - International students
  - Thailand

  If you're a student from Thailand joining a one-year master's degree, you might be eligible to apply to have your tuition fees paid in full and receive help with living costs. One award is available and only students who are new to the University will be considered.

- ## HUMANITARIAN SCHOLARSHIPS FOR MASTER'S PROGRAMMES

  - International students

  Do you have recognised status as a refugee or person with humanitarian protection outside the UK? Or are you a Ukrainian who's sought temporary protection in the EU? You could be eligible to apply for the full payment of your master's fees and additional financial support.

- ## JOHN LENNON MEMORIAL SCHOLARSHIP

  - Home students

  If you're a UK student, either born in or with strong family connections to Merseyside, you could be eligible to apply for a fee discount of up to £4,500. You'll need to demonstrate an active interest in global, community and environmental issues to be considered.

- ## JUVENTUDESGTO SCHOLARSHIP

  - International students
  - Mexico

  If you're a resident of the state of Guanajuato in Mexico joining a master's degree, you could be eligible for a 10% discount on your tuition fees with a JuventudEsGto Scholarship.

- ## KAPLAN DIGITAL PATHWAYS EXCELLENCE SCHOLARSHIP

  - International students

  Completed a Kaplan Digital Pathways Pre-Master's? We're offering a £5,000 fee discount off the first year of master's study for a maximum of two high achieving students joining one of our non-clinical master's courses from an online Kaplan Pre-Master's programme.

- ## MARSHALL SCHOLARSHIP

  - International students
  - United States

  If you're a USA student joining an eligible master's with us, you could be eligible to apply for a Marshall Scholarship. If your application is successful, your master's tuition fees will be paid in full. One Marshall Scholarship for master's study is available in each academic year.

- ## POSTGRADUATE OPPORTUNITY BURSARY

  - Home students

  If you're a UK University of Liverpool graduate joining a master's degree with us, you could be eligible to receive £3,000 off your tuition fees. You must have graduated in the last two years and received a widening access scholarship during your undergraduate studies.

- ## SPORT LIVERPOOL PERFORMANCE PROGRAMME

  - Home and international students

  Apply to receive tailored training support to enhance your sporting performance. Our athlete support package includes a range of benefits, from bespoke strength and conditioning training to physiotherapy sessions and one-to-one nutritional advice.

- ## TURKISH MINISTRY OF EDUCATION SCHOLARSHIP

  - International students
  - Turkey

  If you're a Turkish student joining a master's degree, you could be eligible to apply for a 20% discount on your tuition fees with a Turkish Ministry of Education Scholarship.

- ## UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE EXCELLENCE SCHOLARSHIP

  - International students

  Completed a Pre-Master's at University of Liverpool International College (UoLIC)? We're offering a £5,000 fee discount off the first year of master's study to some of the highest achieving students joining one of our non-clinical master's courses from UoLIC.

- ## UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE IMPACT PROGRESSION SCHOLARSHIPS

  - International students

  If you're a University of Liverpool International College student awarded a Kaplan Impact Scholarship, we'll also consider you for an Impact Progression Scholarship. If selected, you'll receive a fee discount worth £3,000 off the first year of your master's course.

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VICE-CHANCELLOR'S INTERNATIONAL ATTAINMENT SCHOLARSHIP FOR MAINLAND CHINA

- International students
- China

Are you a high-achieving graduate from the People's Republic of China with a degree from a Chinese university? You could be eligible to apply for a £5,000 fee discount if you're joining an eligible master's course. Up to 15 eligible students will receive this scholarship.

Entry requirements

The qualifications and exam results you'll need to apply for this course.

Your qualification	**Requirements** About our typical entry requirements
GCSE	4/C in English and 4/C in Mathematics
Postgraduate entry requirements	We accept a 2:2 honours degree from a UK university, or an equivalent academic qualification from a similar non-UK institution. This degree should be in Engineering or Physical Sciences and should provide appropriate knowledge of core engineering science topics.
International qualifications	Many countries have a different education system to that of the UK, meaning your qualifications may not meet our entry requirements. Completing your Foundation Certificate, such as that offered by the University of Liverpool International College, means you're guaranteed a place on your chosen course.

THE ORIGINAL REDBRICK