



Engineering



Science & Technology | **Lancaster University** 

lancaster.ac.uk/engineering

Welcome

Lancaster's Engineering Department is internationally recognised as being at the forefront of research and innovation. It is one of only a handful of general engineering departments in the country, offering an interdisciplinary experience typical of what you will face in modern industry. At Lancaster our first priority is to deliver high-quality, professionally accredited courses.

Our degrees are underpinned by the CDIO framework – Conceiving, Designing, Implementing and Operating, preparing the next generation of engineers.

#7

For Mechanical
Engineering

The Times and Sunday Times
University Guide



New state-of-the-art
engineering building
with specially
designed workshops
and laboratories



Graduate Prospects

100%

Employment rate

Outstanding facilities

Our new Engineering building opened in January 2015 and has been purpose built to reflect the interdisciplinary nature of the subject. It provides modern facilities to accompany world-class teaching and research to prepare and inspire the next generation of engineering talent.

The building boasts state-of-the-art facilities for multi-disciplined engineering, with specially designed workshops and laboratories and a high quality attractive working environment. Students can now work in a variety of ways outside of the traditional learning environment which enhances the quality of our student's experience.



A friendly, personal experience

- Small group sizes
- Low student: staff ratio
- More contact time



A campus-based University

We're set on a beautiful self-contained 360 acre parkland campus. Lancaster is ranked in the top three safest cities in the UK.



Accreditation

Our courses are professionally accredited with the Institution of Mechanical Engineers and/or the Institution of Engineering and Technology.



Fantastic graduate prospects

100% Graduate Employment

#1

Highly ranked in all of the UK's major university league tables

Ranked in the UK Top 10 in both the Guardian and the Complete University Guide. The University is also ranked No.1 in the North West, and is in the Top 1% of universities globally.



Common First Year structure

Giving our students the fundamental engineering skills they'll need throughout their degree and into their careers

Entry requirements

Our degrees are offered as three-year BEng (Bachelor of Engineering) or four-year MEng (Master of Engineering) courses, accredited by the relevant professional engineering institution.

Students who study MEng will graduate after four years with full fulfilment of the academic requirements en route to Chartered Engineer (CEng) status. Chartered Engineers enjoy excellent prospects such as enhanced employability and higher salaries.

At Lancaster, BEng students that achieve a suitable grade in their second year can upgrade to MEng in their third year.

If you apply for MEng, but do not achieve the required grades we will automatically consider you for the equivalent BEng course provided you meet BEng requirements.

A-Levels

- **BEng:** AAB-ABB including Mathematics and a physical science e.g. Physics/ Chemistry
- **MEng:** AAA including Mathematics and a physical science e.g. Physics/Chemistry

**For Chemical Engineering degrees the physical science must be Chemistry*

BTEC

- **BEng:** Distinction, Distinction, Distinction to Distinction, Distinction, Merit in an Engineering related subject including Distinctions in the Mathematics and Further Mathematics units
- **MEng:** Distinction, Distinction, Distinction in an Engineering related subject including Distinctions in the Mathematics and Further Mathematics units

**For Chemical Engineering degrees a BTEC will be considered alongside a Chemistry A-Level*

International Baccalaureate

- **BEng:** 35-32 points overall with 16 points from the best 3 Higher Level subjects, including Mathematics and a Physical Science at grade 6 (Higher Level)
- **MEng:** 36 points overall with 16 points from the best 3 Higher Level subjects, including Mathematics and Physical Science at grade 6 (Higher Level)

**For Chemical Engineering degrees the physical science must be Chemistry*

Essential Subjects to include:

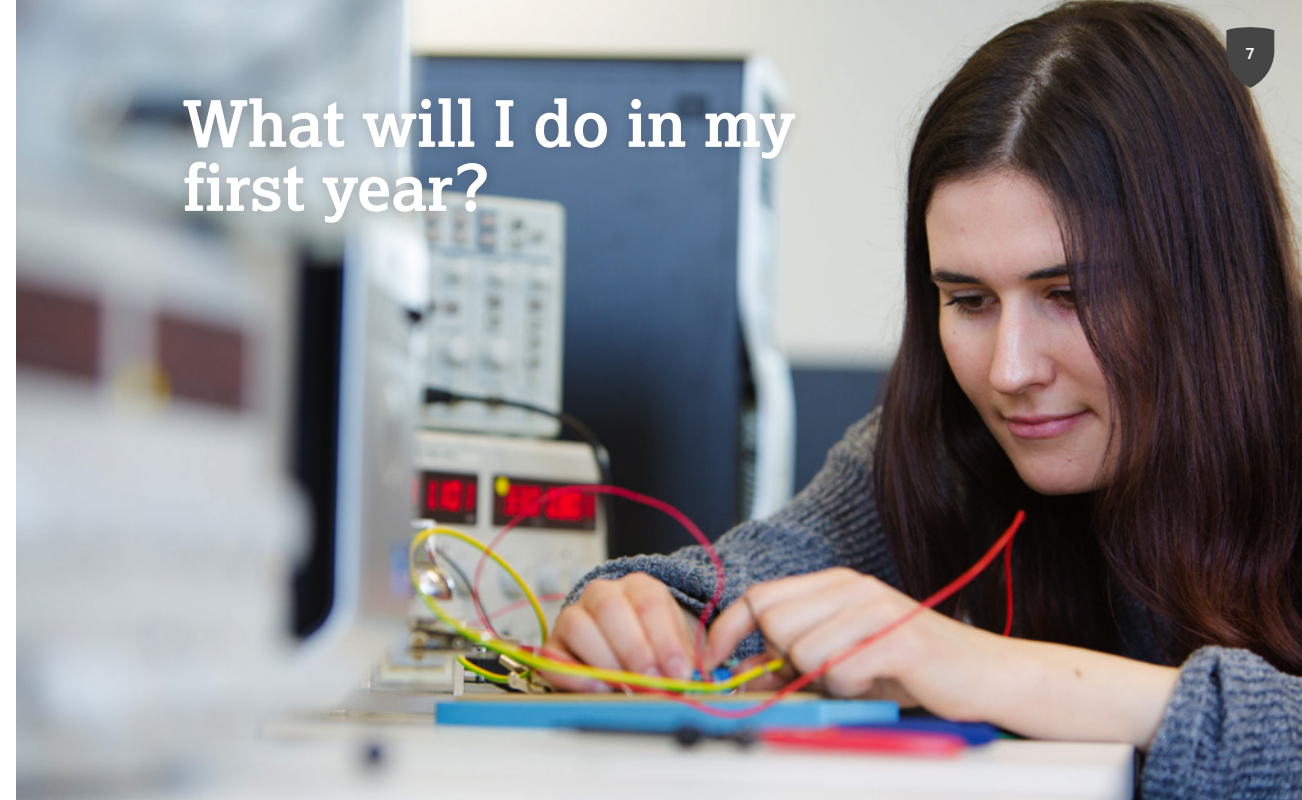
- GCSE requirement - Mathematics (B); English Language (C)
- IELTS 6.5 (with at least 5.5 in each component)

We also accept entry via other national and international qualifications and value any further professional development.

Please see www.lancaster.ac.uk/study/undergraduate/admissions/entry-requirements-and-qualifications or contact the Undergraduate Admissions Office at ugadmissions@lancaster.ac.uk or call **01524 592028** for information about qualifications not listed or direct entry.



What will I do in my first year?



All our Undergraduate degrees start with a common first year regardless of which discipline you choose where you'll study the following modules:

- Design, Innovation and 3-D Thinking
- Strength and Materials
- The World of Manufacture
- Transport Technology
- Energy, Technology and Sustainability
- Electrical and Electronic Fundamentals
- Fundamentals of Electronic Instrumentation
- Fundamentals of Digital Electronics
- Fundamentals of Chemistry for Engineers
- Process Engineering Fundamentals
- Introductory Engineering Mathematics
- Calculus
- Differential Equations
- Further Engineering Mathematics
- Computers and Control

This is designed to give you a broad understanding of the fundamental principles of modern engineering, which you will need throughout your degree and moving forwards into your career.

Industry welcomes this broad knowledge base, requiring engineers that can integrate into multidisciplinary teams and projects.

Which Specialisation?

If you're unsure of which area of specialisation you'd like to go into at first, you can use **UCAS code H100: Engineering** on your application form and this leaves your options open. Similarly, subject to meeting progression requirements, the common first year allows students to change their specialisation allowing a more informed choice at the end of year one.

Teaching quality



10 Hours of lectures



6 Hours of lab/project work plus small group tutorials and workshops



18-20 Hours of weekly contact plus private study

Engineering is more than just about theory and hence in first year alongside lectures you will typically receive up to six hours of lab/practical tuition, a two hour maths workshop, and a group tutorial. This 18–20 hours contact a week is with academic staff who are internationally recognised as leaders in their particular research field. Our technician and admin support team are very approachable and have many years of experience in helping students achieve success.

Your learning doesn't stop at the classroom and it is important that you make the transition from school or college to independent learning as smoothly as possible. Our tutorial support during year one is designed specifically to do this with group sizes limited to five students per tutor with weekly set exercises to complete and regular reports to write. Most practical sessions are aimed at solving problems to reinforce the theory rather than giving out instructions and being told what to do.

With such a diverse range of social activities available and freedom to do what you want when you want it can be difficult to ensure you have the right balance between your academic and social life. To help with the day to day management we make extensive use of e-learning support systems which are available 24 hours a day. The iLancaster app has been developed to make your life at Lancaster University easier and as well as linking to your academic timetable and course information it is packed full of useful information such as bus arrival times, purple card offers, sports centre information, events etc.



Chemical Engineering

BEng: H800
Course Length: 3 Years
MEng: H811
Course Length: 4 Years

Chemical engineers play a crucial role in everyday life and are employed across a huge variety of sectors from chemicals and allied products through to water, energy, and oil and gas. Chemical engineers have technical knowledge of chemistry, biochemistry, engineering, materials science and information technology with additional skills in management, safety and the environment. Chemical engineers enjoy excellent career prospects remaining one of the best-paying professions in the UK. Surveys show that chemical engineers earn more, on average, than other types of engineer and more than pure scientists.

At Lancaster world- renowned research in the fields of nuclear, chemical and energy industries contribute towards teaching, enhancing the curriculum and providing insight to cutting edge technology and techniques. Chemical engineers have many career opportunities. A graduate might perform ground-breaking scientific research, work as a field engineer, or occupy a senior management position. Graduates employed by multinational companies often have opportunity to travel all over the world.

**We aim to achieve accreditation from the Institution of Chemical Engineers by the end of the 2015/16 academic year.*

Chemical Engineering modules

Second year

- Engineering Analysis
- Instrumentation and Control
- Business Development Project
- Fluid Mechanics and Thermodynamics
- Kinetics, Phase Transfers and Reaction Engineering
- Process Transfers of Mass and Heat
- Particle Technology and Separation Processes
- Engineering Design Project

Third year

- Engineering Management
- Electrical and Fluid Drives and Actuators
- Energy Conversion
- Advanced Process Transfers
- Computer Applications to Chemical Engineering
- Chemical Engineering Design and Process Safety
- Individual Project

Fourth year (MEng only)

- Leadership in Technology
- Renewable Energy
- Nuclear Engineering Systems
- Groundwater Resources and Protection or Smart Systems
- Chemical Risk Assessment
- Electrochemical Engineering
- Group Project

Year in industry is optional





Electronic and Electrical Engineering

BEng: H607
Course Length: 3 Years
MEng: H606
Course Length: 4 Years

Our three-year BEng course will help you develop a sound foundation in all aspects of Electronic and Electrical Engineering that are crucial to the design and manufacture of future systems in the medical, environmental, energy, transport, communications and ICT markets. You start your degree following core General Engineering and Engineering Mathematics subjects with specialisation in Electronic and Electrical Engineering from year 2 onwards. The course is accredited by the Institution of Engineering and Technology.

During year three you will have the opportunity to study an individual project under one to one tuition and guidance from our staff who are leading experts in the areas of electronics design, RF and wireless technologies, sensors and instrumentation, nanotechnology and renewable energy. Examples of previous projects include glove controlled robotic hand, a VHDL/BSDL based interface for a through life condition monitor, novel metamaterial antennas, harmonics on wind turbine to grid connections, accelerating systems for the large hadron collider.

Our MEng Electronic and Electrical Engineering degree is fully accredited by the Institution of Engineering and Technology and builds upon the BEng where you will face a higher level of technical understanding using cutting edge technology and are expected to develop your leadership, entrepreneurial and management potential.

In your fourth and final year you will undertake a major group project, often linked with industry where you will contribute your expertise and learning from the previous three years to an interdisciplinary project team. Example previous projects include digital telemetry for formula student race car, control and electrical power system design and wireless instrumentation for renewable power system, a robotic humanoid, embedded control for a novel 3D printer and high frequency structures for 5G communication. Additionally, students on the MEng will undertake two short industry-linked projects. These will provide you with more in-depth knowledge and highly-valued project management and leadership experience.

Electronic and Electrical Engineering modules

Second year

- Electromagnetics and RF Engineering
- Digital Electronics
- Electrical Circuits and Power Systems
- Engineering Analysis
- Control and Instrumentation
- Power and Heat
- Engineering Projects
- Business Development Project

Third year

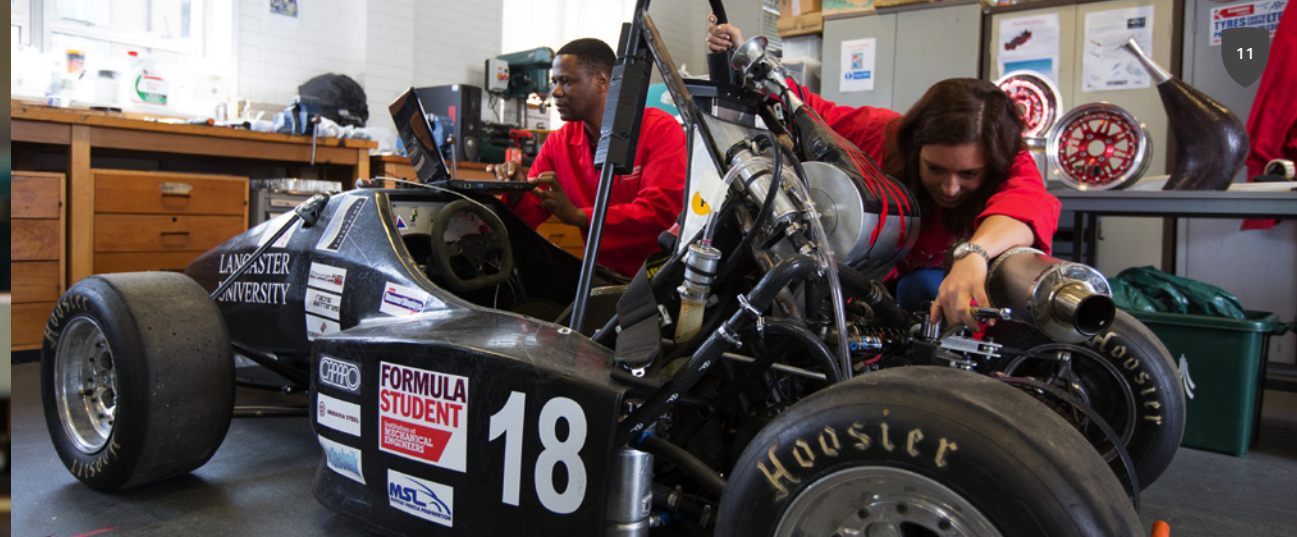
- Individual Project
- Engineering Management
- Electrical and Fluid Drives and Actuators
- Leadership in Technology (MEng students only)
- Programmable Systems

- Optoelectronics and Wireless Communications
- Integrated Circuit Engineering
- Analogue Electronics

Fourth year (MEng only)

- Smart Systems
- Electrical Power Systems and Modelling
- Intelligent Control
- Embedded Systems
- MEng Dissertation Project

Year in industry
is optional



Mechanical Engineering

BEng: H300
Course Length: 3 Years
MEng: H303
Course Length: 4 Years

Mechanical Engineering is a field covering any industry that uses moving parts, from construction to transport; medicine to manufacturing; renewable energy to consumer technology. Our three-year BEng is accredited by the Institution of Mechanical Engineers as meeting partial fulfilment of the educational requirements to become a Chartered Engineer. The programme gives you the skills necessary for the subject, with an applied focus on mechanical system designs. In your first year, you'll study core Engineering and Engineering Mathematics subjects.

Our expert tutors and world-leading resources will support the development of your analytical ability in dealing with complex systems. They will also enhance your creativity for solving problems and producing innovative designs.

In your second year, your studies will continue and include more project work and during your final year you can specialise more – building teamwork skills while developing and indulging your passion for engineering. Example projects include high-lift aerodynamics for turbine blade design, small engine efficiency improvements by water injection, exoskeleton for spinal injury rehab and stiffness and strength of bonded joints between GRP pultrusions. Projects such as

these help you gain solid experience and your combination of practical and analytical skills means you will have the option of entering an exciting variety of careers.

Our four year MEng in Mechanical Engineering is fully accredited by the Institution of Mechanical Engineers and builds upon the BEng scheme offering opportunity for you to develop your leadership, entrepreneurial and management potential as well as deeper understanding in technical challenge.

Our fourth year structure operates with an alternating pattern of intensive two week taught modules followed by a week dedicated towards your group project work. Often linked with industry these projects offer the pinnacle of achievement whilst at university and have been praised by external examiners and industry. Examples include, waste water energy generation with Yorkshire Water, novel prototype tidal turbine with WASP Cumbria Ltd, performance improvement of the Sinterstation 2000 with 3D Systems Europe, surface finish of metallic powder bed additive manufactured part with BAE Systems and Formula Student. Additionally, students on the MEng will undertake two short industry-linked projects. These will provide you with more in-depth knowledge and highly-valued project management and leadership experience.

Mechanical Engineering modules

Second year

- Engineering Analysis
- Control and Instrumentation
- Business Development Project
- Particle Technology and Separation Processes
- Process Transfer of Mass and Heat
- Phase Transfer and Kinetics
- Reactors and Equipment
- Engineering Design Project
- Fluid Mechanics and Thermodynamics

Third year

- Individual Project
- Engineering Management
- Electrical and Fluid Drives and Actuators
- Leadership in Technology (MEng students only)

- Engineering Materials
- Mechanics
- Machine Elements
- Design and Manufacturing

Fourth year (MEng only)

- Design and Modelling of Systems
- Mechanics and Actuators
- Intelligent Control
- Advanced CAD/CAM
- MEng Dissertation Project

Year in industry
is optional





Mechatronics Engineering

BEng: HH63
Course Length: 3 Years
MEng: HHH6
Course Length: 4 Years

Lancaster's Mechatronics degree programme was the first of its kind in the UK, set up in 1984 in response to employers' needs. Thirty years later we continue to lead the field.

Accredited as meeting partial fulfilment of the requirements for becoming a Chartered Engineer by:

- The Institution of Engineering Technology (IET)
- The Institution of Mechanical Engineers (IMechE)

Mechatronic Engineering is the combination of mechanical, electronic and computer engineering.

Your course takes a multi-disciplinary approach and focuses on product design and systems integration using embedded microcontrollers, computers and actuators. You will learn to master the software that drives this technology and use your new skills on individual and group projects such as equipping mobile robots with satellite navigation systems.

On graduation, you will be capable of applying new technologies, promoting advanced design and introducing new and more efficient production techniques or processes.

The four year MEng is fully accredited by the IET and IMechE providing a direct path to becoming CEng with appropriate industrial awareness and experience. The broad technical understanding and leadership skills gained within the MEng makes Mechatronic Engineering graduates particularly attractive to industry and provides flexibility within their career often moving towards management roles.

Similar to our other schemes, MEng Mechatronic Engineering students as well as completing a major group project will complete two short industry-linked projects, past examples of which include, investigation into overheating in a dimmer switch, new product design for a multi-purpose unit in the domestic kitchen market, development of a whole body sleep movement sensor, development of an acoustic sensor for field environments (offshore and onshore) and design for a sports breathing training product.

Mechatronics Engineering modules

Second year

- Engineering Analysis
- Control and Instrumentation
- Power and Heat
- Engineering Project
- Business Development Project
- Mechanics and Vibrations
- Electrical Circuits and Power Systems
- Materials and Design or Digital Electronics

Third year

- Individual Project
- Engineering Management
- Electrical and Fluid Drives and Actuators
- Leadership in Technology (MEng students only)
- Programmable Systems
- Mechanics

- Engineering Materials
- Machine Elements
- Fourth year (MEng only)**
- Design and Modelling of Systems
- Mechanics and Actuators
- Intelligent Control
- Interfacing and Integration
- MEng Dissertation Project

Year in industry
is optional



Nuclear Engineering

BEng: H820
Course Length: 3 Years
MEng: H821
Course Length: 4 Years

You will study a broad range of topics, starting with Engineering and Engineering Mathematics subjects. You can then choose from a range of modules such as Nuclear Medicine and Nuclear Instrumentation through to Nuclear Engineering Systems and Nuclear Safety. You will develop practical skills, test and analyse your design ideas in the laboratory or through computer simulation using engineering IT tools.

Lancaster's Nuclear Engineering MEng degree programme is accredited by both the Institution of Engineering and Technology and the Institution of Mechanical Engineers. Our four-year scheme which is guided by our excellence in research to nuclear instrumentation, nuclear decommissioning,

and chemical processes along with our location relative to Sellafield Ltd, Springfields Fuels Ltd and many supporting specialist companies, puts us an international leader in nuclear engineering systems.

Nuclear applications cover a broad range of sectors from healthcare and cancer treatment through to power generation, national security and decommissioning activity. The industry is set to expand over the next ten years with estimated international spend of around £930 billion for building new reactors and £250 billion for decommissioning those coming offline, there is potential for generation of 40,000 jobs in the UK nuclear sector alone.

Nuclear Engineering modules

Second year

- Engineering Analysis
- Control and Instrumentation
- Power and Heat
- Engineering Project
- Business Development Project
- RF Engineering and Electromagnetics
- Nuclear Engineering
- Decommissioning and Sustainability

Third year

- Individual Project
- Engineering Management
- Electrical and Fluid Drives and Actuators
- Leadership in Technology (MEng students only)
- Nuclear Instrumentation
- Nuclear medicine

- Engineering Materials
- Integrated Circuit Engineering
- Fourth year (MEng only)**
- Design and Modelling of Systems
- Design and Modelling of Systems
- Decommissioning Process and Technology
- Intelligent Control
- Nuclear Safety
- MEng Dissertation Project

Year in industry
is optional





Engineering (Study Abroad)

BEng: H101

Course Length: 3 Years

MEng: H104

Course Length: 4 Years

If you take our Study Abroad variant, you'll spend the second year of your course studying at a partner university in North America or Australasia and it is open to all our engineering programmes regardless of selected specialisation. The courses are accredited by the relevant professional engineering institution. We match the appropriate modules that you would study at Lancaster with those of the overseas partner institution to ensure that you have appropriate skills and prerequisites for your return to Lancaster in year three.

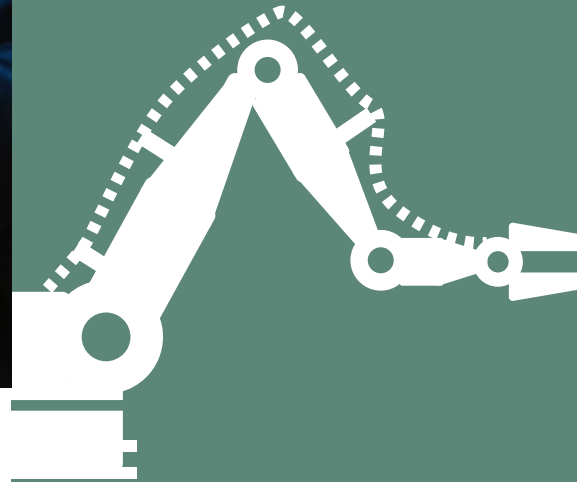
Many multi-national engineering companies recruit graduates with international awareness and a willingness to travel. If you want to kick start your international career by having actual experiences you can talk about then the Study Abroad route is something which you should strongly consider.



What they say...

"Being able to apply what I had learned in classes to real life research was truly amazing, I also got to experience a new place and culture which is definitely an added bonus!"

Sam Smith



Industrial Experience

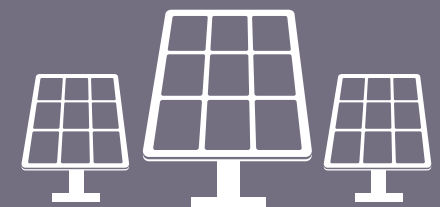
We actively encourage students to take time out of their degree to complete periods of time in industry, typically 12 to 15 months' paid employment. These industrial opportunities can be arranged in conjunction with the university, direct with companies or through the Engineering Development Trust's Year in Industry scheme.

Alongside CV enhancement and increased employability prospects, we have also found that students who complete a year in industry return with increased motivation for the remainder of their course having been able to put their learning so far into practice. Our strong industry links from large corporate to small local company's means that we will be able to assist you to find a suitable and rewarding placement in a sector that interests you for your future career. As a student undertaking a year in industry placement, you'll typically receive a salary of around £15,000 p.a. with many students also receiving funding from the company to support subsequent years of study.



Careers Fair

The department holds an annual Careers Fair dedicated to Engineering students



Industrial Projects

MEng students also participate on industrial projects during their third and fourth years. These are real-life company problems, which whilst non-business critical, could still afford the companies involved meaningful time and progress. Again, our links with companies mean that we can source excellent challenging and constructive projects which are mutually beneficial to the companies and students involved. In the past, projects have involved:

- Build and test of an aerodynamic-enhancing system for HGVs;
- Contribution to steering wheel design for the Bloodhound Super Sonic Car;
- Conceptual design of a diamond wire subsea pipe cutter;
- Maximising electricity from solar energy in small-scale installations;
- Heat distribution investigation for a gas safety product;
- Production process improvement in micro-manufacturing in developing countries;
- Simulation and design recommendation for airport vehicular luggage systems

Testimonials



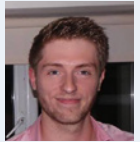
Daniel Driver MEng MIET

Degree: Mechatronic Engineering (MEng)

Current role: Systems Engineer – Reliance Precision Ltd

"I joined Lancaster through a different path from most having already served my time as a Mechanical Engineering apprentice. Deciding to study Mechatronic Engineering at Lancaster was one of the best choices I've made. The degree scheme helped me further my mechanical design and analysis skills, whilst introducing me to the world of electronics and control systems. The practical skills gained from the lab exercises along with teamwork experience and project management skills gained from the group projects have certainly stood me in good stead over the past 2 years.

I am currently employed by the same company that I completed my apprenticeship with, but now reside as a valued member of the Systems Engineering team. Daily work includes working on a range of interesting electromechanical design and instrumentation projects; from the design of high precision/performance gearboxes, to instrumentation and control of production based tests using embedded systems."



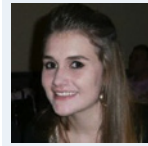
Marcus Belger

Degree: Mechanical Engineering (BEng) 3rd year

"Lancaster was the perfect place for me because of the size of the university and engineering department. Despite the small numbers of students on the course, the facilities are very good and with my background being a BTEC, smaller numbers meant that I would get a more personal approach to teaching and have received a lot more one to one support than I would have had at a larger city university. The course was rated highly in lists of UK universities which is what initially drew me to Lancaster but on my visit day I was extremely impressed with the campus atmosphere and the new engineering department.

Lancaster is a pretty small city but the nightlife for students is really good, with student nights on every day of the week in various places around the city. I have never been a fan of big cities and feel like Lancaster was the perfect size for me, having all the facilities you would really need.

I would highly recommend Lancaster University because the accommodation is amazing, the university atmosphere is really vibrant with loads going on, and the new engineering department is brilliant with loads of great facilities."



Jessica Edward MEng

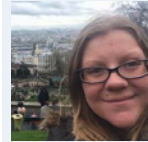
Degree: Mechanical Engineering (MEng)

Current role: Mechanical Equipment Engineer – Doosan Babcock

"My time at Lancaster University gave me valuable experience, the engineering course itself provides a lot of contact time and a lot of support, which is one of the main things that drew me towards this university in the first place. The amount of lab time each student gets allows them to gain a lot of practical skills across all of the universities engineering facilities, along with learning to work within multi-disciplinary teams, a skills which relates directly into industry.

I am currently working for Doosan Babcock based in Glasgow (Renfrew). I was accepted onto the graduate scheme and started in September 2014. In that time I have rotated through various placements within the company, I spent 6 months in R&D and 3 months in NDT.

My current role is as a Mechanical Equipment Engineer, I am working on a new build contract with Doosan Babcock for GSK. This means I write the specifications for the process equipment (pressure vessels, heat exchangers, pumps etc), and work closely with the chosen supplier to ensure the equipment meets the required specification and correct technical design."



Emily Richardson

Degree: Nuclear Engineering (MEng) 4th Year

"During GCSE I attended a residential on Nuclear Engineering at Lancaster University for a week. We spent most of the week looking at cleaning up the swarf from Magnox ponds and using Meccano to construct pumps to test our ideas out. I found the course extremely interesting and the more I looked into studying nuclear, the more I wanted to be involved.

During the residential course I got to experience a lot of campus and stayed in halls. I particularly chose Lancaster because of the collegiate system. It really makes you feel at home at University and helps meeting new people in 1st year."



Nilla Karlsen-Davies MEng

Degree: Mechanical Engineering (MEng)

Current role: PhD Mechanical Engineering – Lancaster University

"I came to the UK six years ago to start my Sustainable Mechanical Engineering degree at Lancaster University. One of the main reasons I applied for a degree in the UK was to gain a different academic perspective and an international approach to engineering. I liked it so much that I decided to stay on to do a PhD! I'm currently in my last year of a three year industrially linked PhD in Mechanical Engineering, which is sponsored by Gilbert Gilkes & Gordon Ltd., a pump and hydro turbine manufacturing company. Gilkes has sponsored several PhD students at Lancaster, all of whom have carried out ground-breaking research in this field. The overall aim of my research is to understand the operational life cycle and wear characteristics of a Gilkes regenerative liquid ring pump through computational and experimental modelling. The majority of my work has focused on developing a reliable and accurate Computational Fluid Dynamics model.

My undergraduate degree at Lancaster gave me an excellent understanding of mechanical engineering principles, such as fluid dynamics, which I've used extensively throughout my research. The high proportion of practical work and group projects have given me a strong background in experimental approaches to research, which I've been able to carry through to my postgraduate studies. The highlight of my degree was definitely the final year group project which allows you to apply everything you've learned throughout your degree and prepares you for real life!"

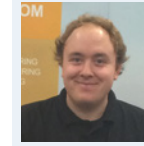


Laura Gould

Degree: Electronic and Electrical Engineering (MEng) 3rd year

"I didn't choose my specialism until the end of first year, after I'd had a chance to find out first hand what the different disciplines were like. I really enjoyed all the electronic themed modules so the choice was easy and I liked the wide range of research areas this course could eventually lead me to.

Having grown up in the area I already knew I loved the feel of the city, and I really wanted to go to a campus university. What specifically drew me to Lancaster's engineering department is the common first year for all the disciplines, ideal for me as I did not know which area I wanted to pursue."



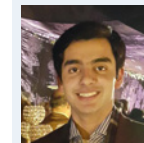
Andy Jones MEng

Degree: Electronic and Electrical Engineering (MEng)

Current role: Networks Engineer – Jaguar Landrover

"I studied the Integrated Masters course and graduated in July 2013. I am currently progressing into my second year of the Jaguar Land Rover Graduate Scheme as a Networks Engineer in the Electronic Engineering Department. My team is responsible for developing, updating and deploying all of the networking technologies that are used in JLR vehicles. This includes the physical layers, driver software and all the processes and tooling that is required to deploy a network in a vehicle.

I would say that the most helpful part of my time at Lancaster in securing this role was the Formula Student masters project, as it really got me interested in in-vehicle networking whilst designing the vehicle's wiring loom and struggling to get the aftermarket dash to talk to the engine controller. Another really helpful part of Formula Student was the experience of teamwork under stress as we had to completely strip and rebuild the car within 24 hours at Silverstone in order to be allowed to race. Experiences like this were really helpful to talk about during my assessment centre."



Mustafa Asad

Degree: Chemical Engineering (BEng) 2nd year

"There have been multiple instances where I have questioned the how and why of various scientific processes. How can the universe's establishment be explained? How do we form substances by mixing different compounds, turning them into drugs and medicines? How is our atmosphere filled with chemical compounds we are unaware of? Pondering over my career options, aiming to find one that would enable me to indulge in my questions about these processes, I came to learn that chemical engineering was the right choice for me. Not only would I flourish in the field, but I will also enjoy the field I have chosen to study. On top of all this it has been my hobby to get the knowhow of all the technicalities of a particular machine/equipment and to get a better product for the future generations.

Searching for universities was quite a tough job thinking where would it be better to adjust especially for an international student. Lancaster University was my firm choice because of its good ranking, the state of the art new engineering building, the collegiate system and the campus life which I believe makes it easier for a student to socialise with people easily. Lancaster University is one of the fastest growing universities in the UK and has a high employment percentage."

Visit Us



Open Days and Campus Tours

Join us at one of our open days or campus tours where you can speak to academic staff, see the building and the facilities, have a tour of the accommodation and sport facilities and experience the students union.

For more information visit: lancaster.ac.uk/visitus



Applicant Visit Days

If you are offered a place on an Engineering degree, you will be invited to visit the University. Our students will give you a guided tour of the campus and answer any queries about the course, our college system, and any other questions you may have. You will get a real flavour of how it feels to live and study here at Lancaster.



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Engineering

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