



UNIVERSITY OF
LINCOLN

School of
Engineering



Study at the School of Engineering

Lincoln's School of Engineering has an excellent track record for graduate employment. Nine out of 10 of our graduates were in employment or further study within six months of finishing their courses, according to the latest Destinations of Leavers from Higher Education survey. Our graduates were also earning, on average, £28,000 according to the same survey.

BEng (Hons) Electrical Engineering and MEng (Hons) Electrical Engineering

Also available with specialisms in Control Systems and Power and Energy

The BEng (Hons) Electrical Engineering degrees at Lincoln aim to encompass topics ranging from energy and automation through to communications and transport.

Electrical engineering students gain a foundation in engineering theory and practice, and have the opportunity to develop fundamental knowledge and refine important technical and workshop skills.

If they wish, students can then opt to specialise in electrical control systems or

power and energy, alongside core electrical engineering modules.

Throughout all of the courses, there are opportunities for students to practise and develop their engineering skills on real-life problems through project work. The purpose-built Engineering Hub was created in collaboration with Siemens and houses industry-standard machinery, turbines, and multiple state-of-the-art teaching and research laboratories, as well as vehicle control and biofuels laboratories.

BEng (Hons) Mechanical Engineering and MEng (Hons) Mechanical Engineering

Also available with specialisms in Control Systems and Power and Energy

Lincoln's BEng (Hons) Mechanical Engineering degrees have been designed to develop graduates who are highly-skilled, creative professionals capable of adapting to new challenges and delivering sustainable solutions.

The University's status as a Siemens Global Principal Partner gives Lincoln graduates enhanced opportunities for sponsorships, placements, mentoring and recruitment.

Aside from traditional careers in engineering, students can aim for careers in robotics, assistive technologies, unmanned aircraft, driverless cars and automated production lines. Lincoln's Mechanical Engineering graduates can play a vital role in the innovation of technology for the modern world.

BEng (Hons) Automation and Robotics

This is an industry-guided course designed in collaboration with global industrial giants, such as B&R Automation and Schneider Electric. It aims to produce skilled engineering professionals who can actively participate in and manage the executive design and development of automation systems. Students will be given the chance to design or manage systems produced through a combination of skills from the fields of mechanical and electrical engineering.

This helps to promote a large variety of possible applications, helping students to learn how to manage the demands of the continuous evolution of technology as well as providing flexibility in the jobs market.

Degree Apprenticeships

The School of Engineering, in conjunction with industry partners and the National Centre of Food Manufacturing (NCFM), are excited to be introducing innovative degree apprenticeships based around

block teaching and on-the-job training and support. These will be sector specific and begin with programmes in Food Engineering and Manufacturing Engineering, with details to be released in due course.

Postgraduate Studies

We offer taught postgraduate programmes with our MSc Engineering Management and MSc Mechanical Engineering courses, as well as research opportunities through our MSc by Research Engineering, and MPhil/PhD Engineering programmes.

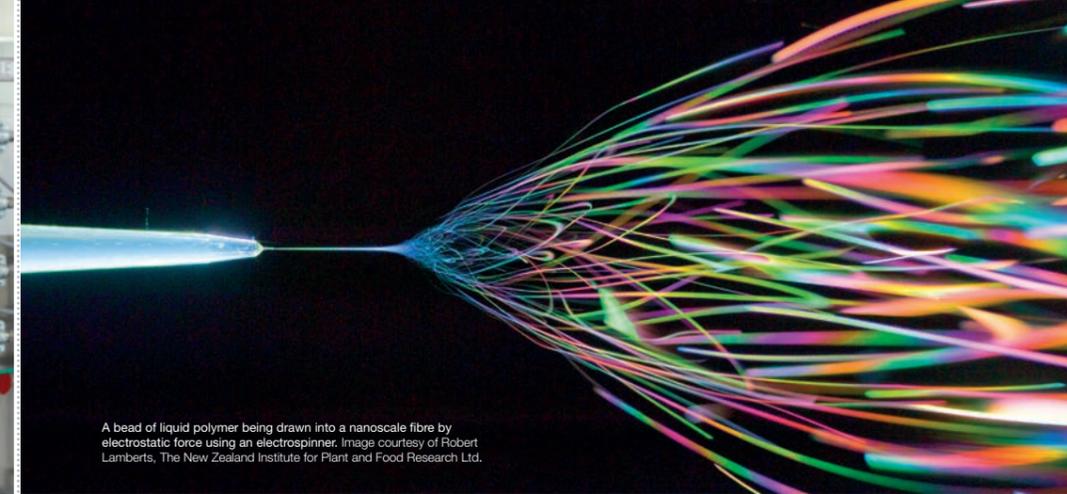
Student Bursaries

Siemens offers a significant number of bursaries to full-time Mechanical and Electrical Engineering applicants who make the University of Lincoln their first choice institution via UCAS. The nature of these financial packages changes each year. Please see our website for the latest information.

Careers Guidance

The School of Engineering works closely with the Careers & Employability Service to ensure that employability is embedded throughout the curriculum and that students receive the right support to allow them to develop into highly-employable graduates who contribute to the development of society and the economy.

Please visit www.uolcareers.co.uk for more information.



A bead of liquid polymer being drawn into a nanoscale fibre by electrostatic force using an electrospinner. Image courtesy of Robert Lamberts, The New Zealand Institute for Plant and Food Research Ltd.

Welcome to Engineering at Lincoln



“It is my great pleasure to introduce you to the School of Engineering at the University of Lincoln.

We constantly strive to attract a dynamic group of students, academics and researchers who can work together to advance knowledge and elevate skills, and we hope you make the choice to join us.

Everyone in the world is surrounded by gadgets, structures and machines that have been invented, developed and maintained by engineers.

From designing new power stations to provide energy for our homes, to inventing new sensors to make cars safer, engineers are driving society forward.

Here at Lincoln, we are moving quickly too. The Engineering Hub forms part of the £28 million Isaac Newton Building, and we have state-of-the-art facilities to help you benefit from an education that is in tune with industry.

The University is a Siemens Global Principal Partner, one of only five in the UK and 17 worldwide. This gives Lincoln graduates superb new opportunities for sponsorships, placements, mentoring and recruitment. Other graduate destinations have included Alstom, Babcock, JCB and Jaguar Land Rover.

I hope you will consider Lincoln as the next step on your journey towards shaping your future career.”

Dr Michael Gallimore
Head of School of Engineering

Working with Industry

Siemens Global Principal Partner

Beyond the bursary scheme which is in place for new students to apply for, in support of their studies, the School of Engineering also works with Siemens in a number of other ways. We work with their staff to offer our expertise to training schemes, work alongside research projects, as well as helping to train their apprentices. Further to this, the graduate programme with Siemens is competitive and offers a wide-range of career development options.

Industry-led curriculum

A range of our industry partners link in with the School to develop real-world (and sometimes actual) problems that the companies have come across. These are then used as Level 2 and 3 projects that groups of students can work on, and then subsequently deliver their outcomes to the industry partners via poster presentations, at the end of the module. Some example partners who are involved in this currently are Ford Motor Co. Ltd., James Dawson, Dynex Semiconductors and Greenray.

Placement opportunities

We work with our industry partners to give our students a valuable extra-curricular placement offering, whether it is a one week placement, right the way through to a year in business or an internship. Some example partners offering these placements alongside Siemens are JN Bently and Engie.

Graduate opportunities

Whilst the most daunting aspect of any student's time at university is trying to nail down the next step in their career post-graduation, we continually work with our industry partners to source opportunities for graduate roles. Example partners we currently have these opportunities with are Castlet Ltd., Cummins/Newage and JN Bently once more.

Collaborative projects

Engineering students also get to work across campus on collaborative projects in other facilities related to Engineering. **WorkSpace 7** in the ThinkTank is a hub for student-industry interaction and is also where the Student Engineering Society undertakes extra-curricular projects, one of which is building a hybrid quad-cycle/boat, to take part in a charity event.

The School of Engineering, in conjunction with industry partners and the **National Centre of Food Manufacturing (NCFM)**, based at our Holbeach Campus, are excited to be introducing innovative degree apprenticeships based around block teaching and on-the-job training and support. These will be sector specific and begin with programmes in Food Engineering and Manufacturing Engineering, with details to be released in due course.

Facilities

The School of Engineering is proud to have some fantastic specialist labs for undergraduate, postgraduate, research, and industry collaborative work.

Housed in the recently built Isaac Newton Building, the School has a range of facilities developed to enhance curriculum delivery, whilst giving students hands-on experience of industry-standard laboratory equipment. This can enhance the skillset of the students before graduating and going on to potentially use this equipment in the next stages of their careers.

Examples of some of specialist facilities are the Metrology Lab, the Materials Lab (where Nanofibre research takes place), the Vehicle Controls Lab, the Semi-Anechoic Vibrations Lab and the Laser Lab. There are also labs specialising in Renewable Energy Systems, and a Thermofluids Lab designed to support teaching and research around thermodynamics and fluid mechanics/dynamics. This includes a demonstrative wind tunnel enabling teaching of the theory behind wind blade design and testing, aerodynamic study of aerofoils for sports cars, and other uses.

Research Groups

The School of Engineering is home to three research groups with interests based in Energy and Systems.

This School is dedicated to supporting innovative research of the highest quality, and our researchers have joined us from across the globe, and integrate with our undergraduate and postgraduate students, on project work at all levels.

Intelligent Systems Research Group (ISRG)

The focus of ISRG is on the development and application of modern control and information systems to solve real problems. The group perform fundamental research on the modelling, monitoring, control and optimization of complex engineering systems, aiming to bring those systems rapidly into the marketplace.

Power and Energy Group (PEG)

Members of the Power and Energy Group (PEG) conduct fundamental and applied research in all aspects of power and energy

production, distribution and control. Key applications currently include smart energy and renewables research, widely-distributed demand side energy control, low carbon/ emissions engines, large-scale horticultural LED systems, high-power electronic converter design, electrical machine control, energy storage and peak power buffer technologies, and smart-grid applications.

Materials Processing and Manufacturing (MPM) Group

The Materials Processing & Manufacturing group is a collective of world-class experts who combine to contribute to the Food, Agri, Defence and Manufacturing sectors through their in-depth knowledge of Industry 4, Sustainability, Material Processing, Material Properties, Making Techniques and Advanced Applications. Specific technologies under development within the MPM Group include Nano-fibre based materials, autonomous applications of lasers, high integrity system design, signal processing, advanced metrology and material performance modelling techniques.

Find Out More

There are many ways for you to engage with the School of Engineering, and the University of Lincoln. Whether you want to visit us and take a look around, join our online community or find out more information, we are here to help. Call us on **01522 886644**, email **enquiries@lincoln.ac.uk** or read on to find out other ways to get in touch.

Contact the School

If you would like to know more about the programmes or entry requirements, please contact our Admissions Tutor, Senior Lecturer **Dr. Abby Samson** on **01522 837953** or **asamson@lincoln.ac.uk**

Or to contact the School for any other query, please call **01522 837950** or email us on **engineeringenq@lincoln.ac.uk**

Open Days

The University holds Open Days throughout the year, which offer a great opportunity for you and your family to explore the campus, speak to lecturers and find out more about student life at Lincoln. For more information and to book your place, please visit:

www.lincoln.ac.uk/opendays

Postgraduate Visits and Taster Days

At a Postgraduate Taster Day, there are opportunities to take part in a lecture or workshop, as well as to meet our academics and other prospective students.

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All information accurate at the time of print. For the latest information, please visit our website.

International Students

The University of Lincoln aims to provide a vibrant and dynamic atmosphere for international students who are looking to study in the UK. Please visit **www.lincoln.ac.uk/international** for more information.

Social Media

To keep up-to-date with the latest news and information from the University, join our online communities.



facebook.com/lincolnschoolofengineering



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