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Product Design Engineering BEng (Hons) degree

4 years full-time with placement year or 3 years full-time

Typical offer

ABB

ENTRY REQUIREMENTS

Fees for 2025-26 (per academic year)

UK: £9,250

International: £29,750

FEES

UCAS codes

4 years full-time with placement year: H715

3 years full-time: HH1R



Start date

October 2025



Institute code

L79



Subject area

[Mechanical, Electrical and Manufacturing Engineering](#)

Our Product Design Engineering course blends design principles, ergonomics, engineering science and technology to create new products. This is integrated with manufacturing processes, technology and knowledge to turn designs into reality.

Product Design Engineering is the process of developing functional products for customers that can be then sold by businesses in competitive markets. It is fundamental to global market success and requires not only aesthetics and customer appeal, but also fitness for purpose and correct functionality, together with superior quality at a competitive price.

It is only when design is combined with a knowledge of the opportunities presented by new design tools, new materials and manufacturing processes, that innovative ideas may be exploited to their full potential. This linking of product design with manufacturing technologies is demanded by a wide range of industrial and commercial sectors and is critical to allowing quality products to be designed and produced in the right quantities, to an appropriate level of quality and at the right price.

It brings together detailed and versatile product design skills with an in-depth knowledge of manufacturing processes and technologies. By combining a thorough design education with a sound engineering base, our graduates are ideally placed to conceive and develop innovative designs and turn them into profitable products.

What's the difference between MEng and BEng?

The structure of the first two years is common between the BEng and MEng and provide you with design core skills, combined with manufacturing technology and processes modules. The application of design and the

aspects and addresses the strategic and managerial challenge facing the implementation of new professional approaches in industry.

Students studying on the BEng course may have opportunity to change to the MEng course if their performance in the first and second year is sufficiently strong.

Product Design Engineering MEng

Product Design Engineering or Product Design Technology

Loughborough University offers undergraduate degrees in Product Design Engineering and Product Design Technology.

What's the difference, and which one should you study?

Why you should choose us

TOP 10
IN THE UK FOR
MANUFACTURING AND
PRODUCTION ENGINEERING

THE COMPLETE UNIVERSITY GUIDE 2025

TOP 100
IN THE WORLD FOR
MECHANICAL,
AERONAUTICAL AND
MANUFACTURING
ENGINEERING

QS WORLD UNIVERSITY RANKINGS BY SUBJECT 2024

£31K
AVERAGE START
SALARY FOR PR
DESIGN ENGINEER

GRADUATE OUTCOMES SURVEY 2024

Why you should study this course

By choosing to study Product Design Engineering at Loughborough you will understand aesthetic and ergonomic design principles, industrial design, product development, linked with a strong emphasis on understanding the manufacturing processes needed for your products, and the underpinning engineering science that will tell you how it all works.

We provide students with the ability to design, manufacture and test fully functioning design solutions, using Siemens NX 3D Computer Aided Engineering design environments, state of the art Additive Manufacturing facilities, industry standard CNC machine tool systems, manufacturing processes, and sub-micrometre accuracy measurement equipment. The course gives you the benefit of professional engineering and/or professional design career routes and will allow you to develop products in companies across many different industrial sectors, or start your own company and develop your own product ranges.

Student Experience: Nicole and Kate



Student experience: Nicole and Kate

Meet Nicole and Kate and discover the employability options they accessed and what makes up their University experience.



Lisa

The reason I chose to study at Loughborough University was because I saw that the Product Design Engineering course offered a variety of topics including Materials and Manufacturing Engineering, Additive Manufacturing and Sustainable Manufacturing.

Professional recognition

Our BEng Product Design Engineering degree is accredited by the Institution of Engineering and Technology (IET) Institution of Engineering Designers (IED) and the Institution of Mechanical Engineers (IMechE), all licensed by the UK Engineering Council.



(IEng) or Chartered Engineer (CEng).

What you'll study

The courses within the Wolfson School of Mechanical, Electrical and Manufacturing Engineering are unique from day one with industry focused content, meaning you can learn the skills and knowledge to build a successful career from the very start. Whilst there are compulsory modules throughout the course, there will be an opportunity for you to specialise in a specific area through your optional module choices during the third year for BEng students, and during the third and fourth years for MEng students. Take a look at some of the modules you may have the opportunity to study below.



The information below is intended as an example only, featuring module details for the current year of study. Modules are reviewed on an annual basis and may be subject to future changes – revised details will be published through [Programme Specifications](#) ahead of each academic year. Please also see [Terms and Conditions of Study](#) for more information.

Year 1

Year 2

Final year

Semester 1 & 2

Compulsory

Mathematics for Manufacturing Engineering

Engineering Science 1

Product Design (Ergonomics and Visualisation)

Integrating Studies

Materials and Manufacturing Processes

Semester 1

Compulsory

Application of CAD for Engineering Designers

Semester 2

Compulsory

Electronics & Electrical Technology 1

**Lectures****Seminars****Tutorials****Independent study****Group work****Workshops****Laboratory work****Practical sessions**

How you'll be assessed

Lecture based modules are assessed by a combination of coursework and formal examinations taken at the end of each semester.

Project module assessments require written reports and technical presentations, preparing you for your subsequent career. In their final year, BEng students prepare a design and technical exhibition respectively.

The proportion of coursework assessment is approximately 30% to 50% depending on degree course, semester/year and optional modules.

Placement year

The majority of undergraduate degree programmes within the Wolfson School of Mechanical, Electrical and Manufacturing Engineering provide students with the opportunity to undertake a salaried placement year.

If you choose to undertake a year in industry, you will complete a full year of assessed industrial training typically between years two and three of your academic studies.

Our dedicated placements team is notified of vacancies and opportunities throughout the academic year and provide support with the application process to help you secure a suitable placement. Additionally, our placements team host an annual Engineering/STEM Placement and Graduate Careers Fair, which sees over 70 external companies attend, and gives students the opportunity to network and speak to experts in their chosen fields and find out more about future career opportunities.

Our students have undertaken placements in a variety of sectors including automotive, aerospace, electronics, consumer goods, computer software and food processing.

Please note that whilst the department offers great support for students to find a placement, it is ultimately the student's responsibility to source and secure their industrial placement.

Featured placement year companies

Our recent placement students have worked for many design and engineering companies in the UK including 3M Healthcare, BAE Systems, BP, DERA, Dyson, Eurotherm Drives Ltd, Rolls-Royce, Schlumberger, Tata Steel, The Boots Co. plc, Toyota, Triumph, TRW Lucas Aerospace and Vauxhall.



Additional award

By undertaking a year on professional placement or working in industry, you will gain an additional award alongside your final qualification. If you undertake a professional placement year you will gain a **Diploma in Professional Studies (DPS)** or if you complete a year in industry you will gain a **Diploma in Industrial Studies (DIS)**.



Student placement - a unique opportunity

More than 1,400 Loughborough University students complete a 12-month placement each year. They join a range of organisations and deliver tangible benefits to their hosts as well as honing a range of workplace skills.

Study abroad

If you are interested in travelling whilst you study, there are options to study overseas with our partner universities. By choosing this course you'll have the option to take advantage of this exciting opportunity, giving you the chance to not only experience new cultures and visit exciting destinations, but also to expand your learning experience. The length of a study abroad placement would be confirmed by your School or Department.

[Learn more about the benefits of studying abroad](#)

Where you'll study

We recently invested over £70 million into developing the west side of campus where the Wolfson School of Mechanical, Electrical and Manufacturing Engineering is based.

We have improved our extensive high-tech teaching space, laboratories and workshops which are used for both taught modules and practical projects. This includes the STEMLab which provides additional facilities, with a 'drop-in' engineering workshop, teaching laboratories, workshops, computer-aided design and rapid prototyping facilities, a design studio and informal learning spaces. These further increase our ability to train and develop skilled graduates that are targeted by major employers from across the world.

3D Printing Suite

Group Study Space

Entry requirements

To learn more about the qualifications we typically accept, please select your country from the drop-down menu below.

General entry requirements

The entry requirements for each course should be read alongside the University's general entry requirements which give further details on acceptable subjects, alternative UK and international qualifications and minimum English language requirements.

Contextual admissions

The University's admissions process uses contextual information to provide insights into the context in which your academic qualifications have been achieved. This may influence the typical offers listed below.

General entry requirements

Contextual admissions

Country / region

United Kingdom



United Kingdom

Typical A level offer	ABB including Maths and either Design and Technology, Engineering or Physics
Typical IB offer	34 (6,5,5 HL) including HL Maths and either Design Technology or Physics at HL
Typical BTEC offer	BTEC Level 3 National Extended Diploma: D*DD in a relevant subject plus A Level Maths at grade B. Grade Distinction in BTEC Level 3 National Extended Certificate in Engineering plus Grades AB from two A Levels.

Technology, Engineering or Physics.	
GCSE	GCSE English Language grade 4/C
Reduced contextual offer	Meeting specific eligibility criteria guarantees that if you are made an offer, it will be reduced by up to two grades. Find out more about Access Loughborough Contextual Offers .
Other	T Level Merit Overall B in Core Component, Merit in Occupational Specialism, Pass in Industry Placement B in A Level Maths T Level in Design and Development for Engineering and Manufacturing and Mechanical Engineering Occupational Specialism is considered.

Preferred subjects

BTEC preferred subjects: Engineering, Manufacturing or Mechanical

Selection

Applicants are selected on the basis of their UCAS application and interview in order to assess academic potential beyond that provided as part of the application. An interview also gives applicants the opportunity to visit, meet staff and students, see facilities and get an insight into what it is like to be a student at Loughborough.

Many of our courses receive a large number of applications for each available place. We cannot unfortunately always make offers to all applicants who are predicted to achieve/have achieved grades in line with our advertised typical offers.

[International website](#) [Meet us in your country](#)

Tuition fees for 2025 entry

UK fees		International fees	
£9,250	Approx. 20% of the full-time fee	£29,750	Approx. 20% of the full-time fee
Full-time course per annum	Placement year	Full-time course per annum	Placement year

Tuition fees cover the cost of your teaching, assessment and operating University facilities such as the library, IT equipment and other support services. University fees and charges can be paid in advance and there are several methods of payment, including online payments and payment by instalment.

Additional costs

While the cost of your tuition covers lots of things, it doesn't cover everything. For instance, this course doesn't cover the cost of any stationery, printing, books or re-assessments which you might need.

Sponsorship and scholarships

All of our courses have an established reputation with employers in industry. Companies, therefore, target the School with placement year opportunities and a number of companies offer sponsorship, for which there is intense competition. Students seeking sponsorship are urged to consult publications such as Career Research and Development (CRAC) and Engineering Opportunities.

Students studying many of our Engineering degree courses, and are intending to take up a career in the Armed Forces or Civil Service, may be eligible for financial support under the Defence STEM Undergraduate Scheme.

Further fees and funding information

What's included in your tuition costs

Fees status

Accommodation and hall fees

Your future career

The UK has a wealth of engineering and technology companies, ranging from small and medium-sized enterprises to multinational global corporations.

Our courses are industry led and are designed to give you the skills and knowledge required to have a successful career upon completion.

For those aspiring to achieve Chartered Engineer status and beyond with our accrediting institutions, we actively encourage membership as the starting point.

Career support services

Your time at Loughborough University will form a launchpad from which you can build an exciting career. With so many opportunities available, you'll never be short of ways to improve your employability.

Our award-winning Careers Network team is here to help and support you, offering everything from CV workshops, one-to-one advice sessions and mock interview practice sessions to high-profile employer events. We've got everything you need for a really successful future.