Find out more:
www.southampton.ac.uk/ecs

UK enquiries:
enquiry@southampton.ac.uk
+44 (0)23 8059 9699

EU and International enquiries:
International@southampton.ac.uk
+44 (0)23 8059 9699

UNIVERSITY OF Southampton

CREATE TOMORROW'S TECHNOLOGIES

ELECTRONICS AND COMPUTER SCIENCE
UNDERGRADUATE COURSES 2021

FOUNDING MEMBER OF THE RUSSELL GROUP

SUPPORTING YOU WITH OUR SCHOLARSHIP PROGRAMME

Scholarships are available in a variety of categories. They are valued at up to £3,000 each. Full information is available on our website.

Find out more:
www.ecs.soton.ac.uk/scholarships

Top 100
global university*

Top 20
UK university**

CHOOSE SOUTHAMPTON

Choosing your university is about more than finding a course. It's about starting the next chapter of your life and taking another step towards becoming the person you want to be.

At Southampton, we share your passion to learn and encourage your desire to explore and evolve in a friendly and vibrant community.

Our academics and diverse student community will inspire, challenge and support you. Together we can help you make your mark on the world.

Electronics and Computer Science (ECS) at the University of Southampton has been changing the world since its foundation and continues to do so. It is one of the world's largest and most successful departments of its kind, with over 70 years of technology development at the leading edge. You will benefit from our superb undergraduate facilities and our internationally renowned teaching and research programmes that are ranked among the best in the UK.

CONTENTS

TAKE A TOUR

Can't wait for an Open Day? Experience Southampton through a virtual tour.

Find out more and explore:
www.southampton.ac.uk/sb/virtualopenday

*QS World University Rankings, 2020
**Complete University Guide, 2020

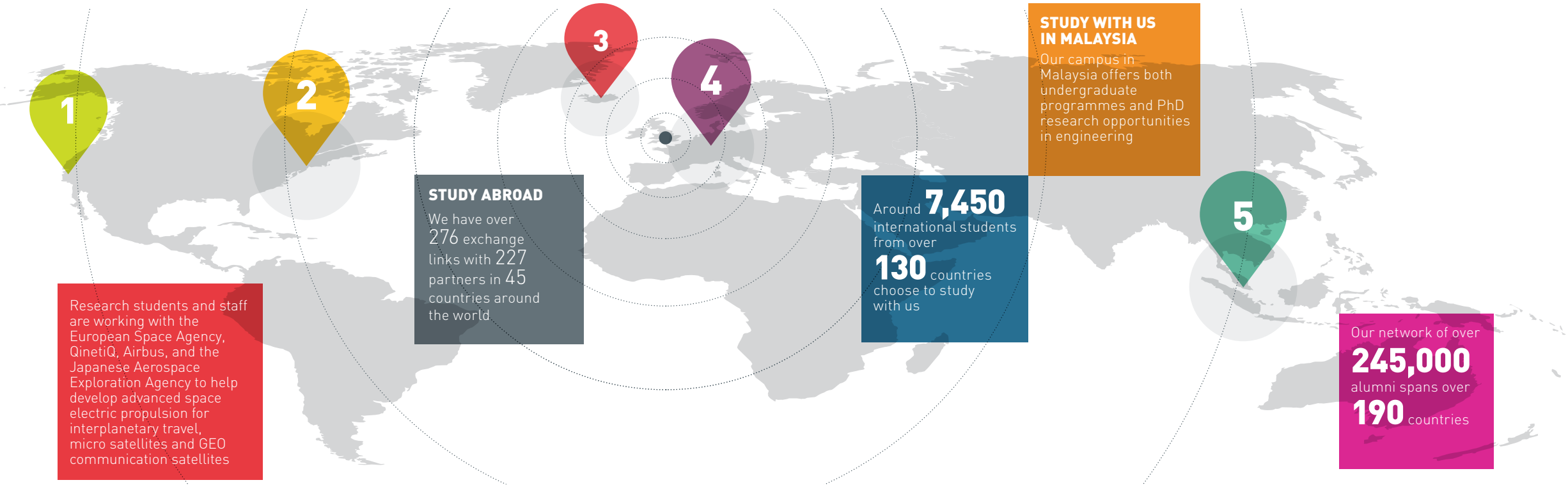
A GLOBAL UNIVERSITY

We are part of the **Worldwide Universities Network**: a collaboration of knowledge from around the world

Southampton is your gateway to the world.

Explore new cultures through study abroad opportunities and international student societies, get advice from our global alumni community, and make friends with people from a multitude of backgrounds.

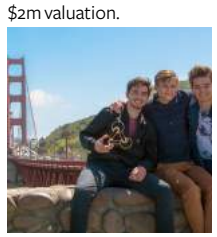
Our inspiring academics make a difference on every continent, and our business, government, and non-government organisation partners span the globe.



@unisouthampton
Follow us for the latest news, research and events at the University

1 Startup to Silicon Valley

Graduate entrepreneur Maciej Szpakowski, BSc Computer Science 2018 and his colleagues Mauro Cozzi and Przemek Zientala expanded their smart search startup in California. In 2019 they joined the Berkeley SkyDeck accelerator with a $2m valuation.



2 Bringing AI to sports industry

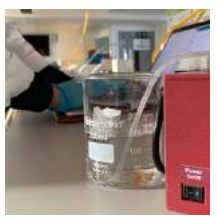
ECS graduate, now PhD student, Ryan Beal recently presented his work on using AI to improve football team selection at a leading AI conference in New York.

3 Tracking glaciers in Iceland

Following his degree in ECS, Graeme Bragg studied for a PhD while part of the Glacsweb team studying the effects of climate change on glaciers. He went on to produce electronics currently used to track glacier flow, and is now a researcher in ECS.

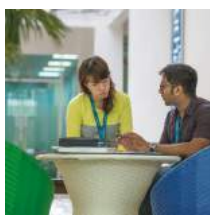
4 Preventing health problems

Student entrepreneurs Til Jordan and Andrius Matšenas won a regional German science competition with their device that alerts owners to contaminated water using a combination of machine learning and spectroscopy.



5 Study in Malaysia and the UK

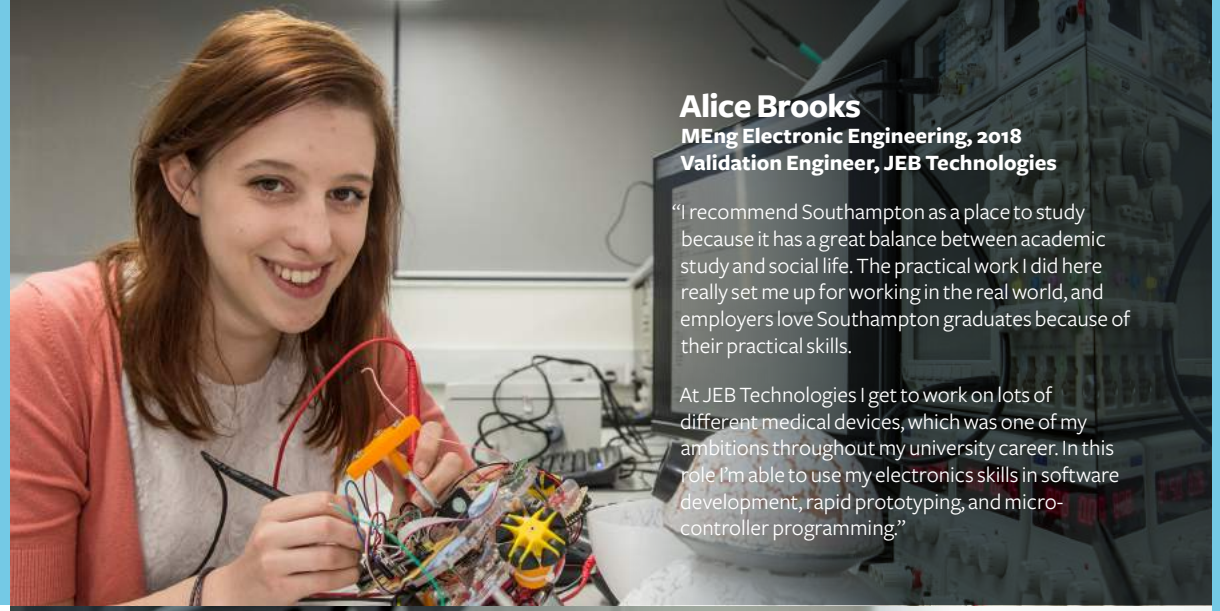
We also offer Electrical and Electronic Engineering at our Malaysia campus. Students have the chance to gain a unique 'Southampton' education in Malaysia combined with two years in the UK.



OUR PEOPLE

Our world-leading academics will inspire, challenge and support you throughout your studies. While you are with us, you will be taught by experts with industry experience and lecturers with innovative approaches to education.

- → Become part of a research-intensive community where our discoveries are having global impact
- → Our graduate mentors can help you develop your skills.
- → Feel welcome in your new home among a diverse mix of people and cultures
- → Read our student and alumni stories

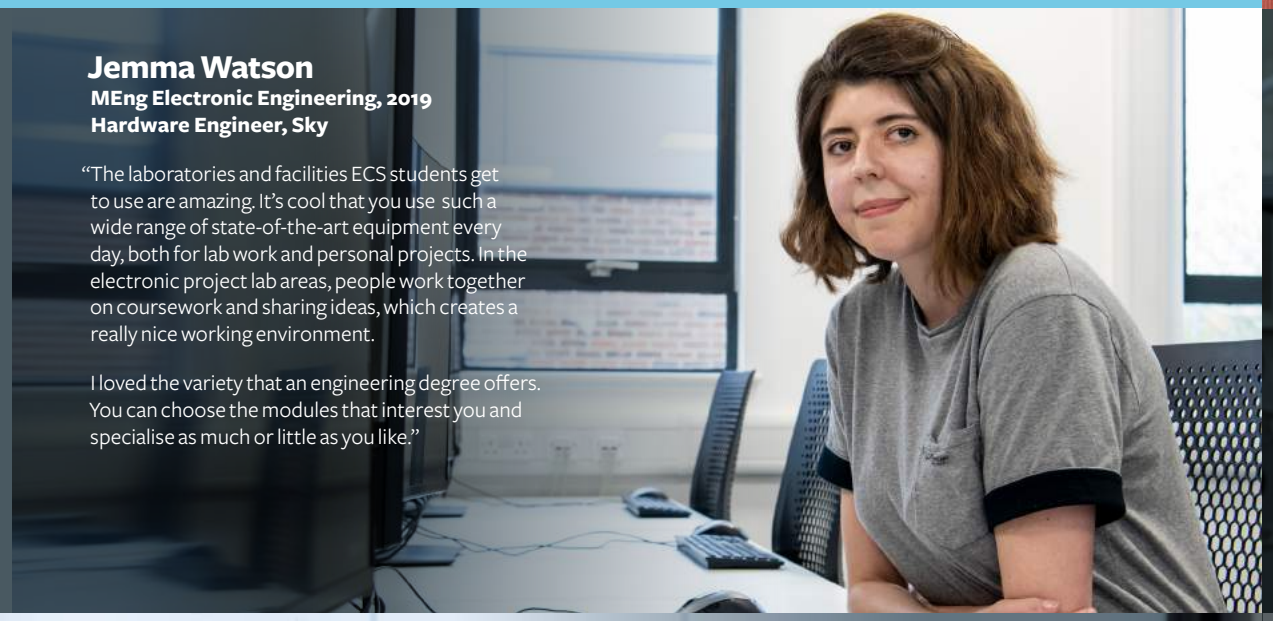


Alice Brooks

MEng Electronic Engineering, 2018
Validation Engineer, JEB Technologies

"I recommend Southampton as a place to study because it has a great balance between academic study and social life. The practical work I did here really set me up for working in the real world, and employers love Southampton graduates because of their practical skills.

At JEB Technologies I get to work on lots of different medical devices, which was one of my ambitions throughout my university career. In this role I'm able to use my electronics skills in software development, rapid prototyping, and micro-controller programming."

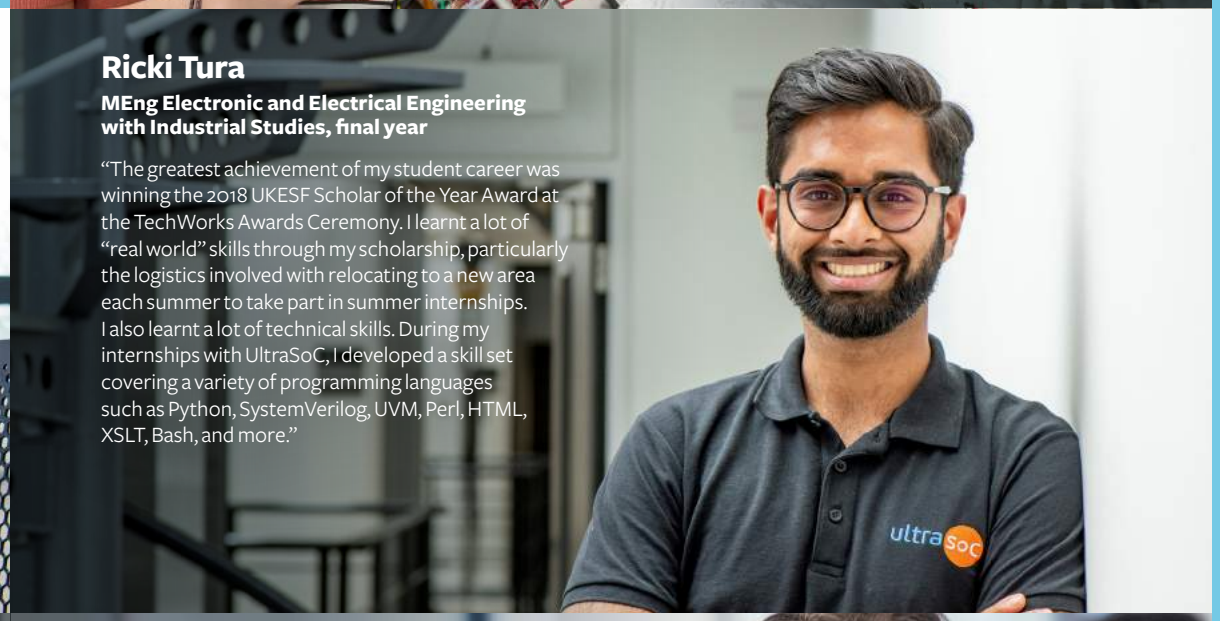


Jemma Watson

MEng Electronic Engineering, 2019
Hardware Engineer, Sky

"The laboratories and facilities ECS students get to use are amazing. It's cool that you use such a wide range of state-of-the-art equipment every day, both for lab work and personal projects. In the electronic project lab areas, people work together on coursework and sharing ideas, which creates a really nice working environment.

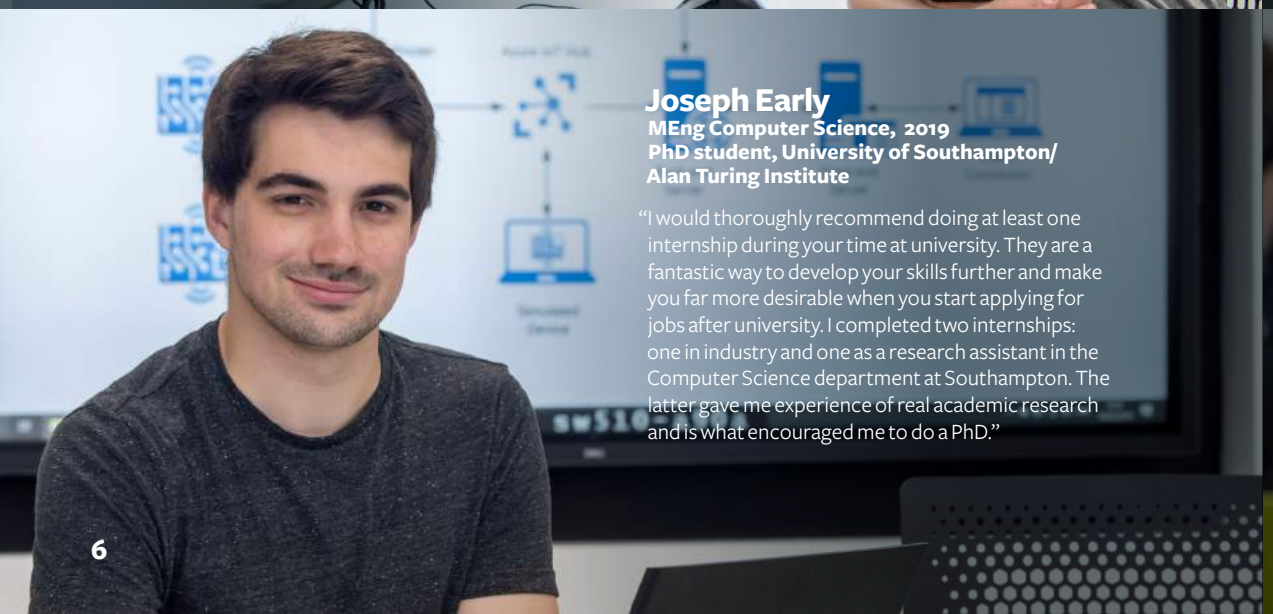
I loved the variety that an engineering degree offers. You can choose the modules that interest you and specialise as much or little as you like."



Ricki Tura

MEng Electronic and Electrical Engineering with Industrial Studies, final year

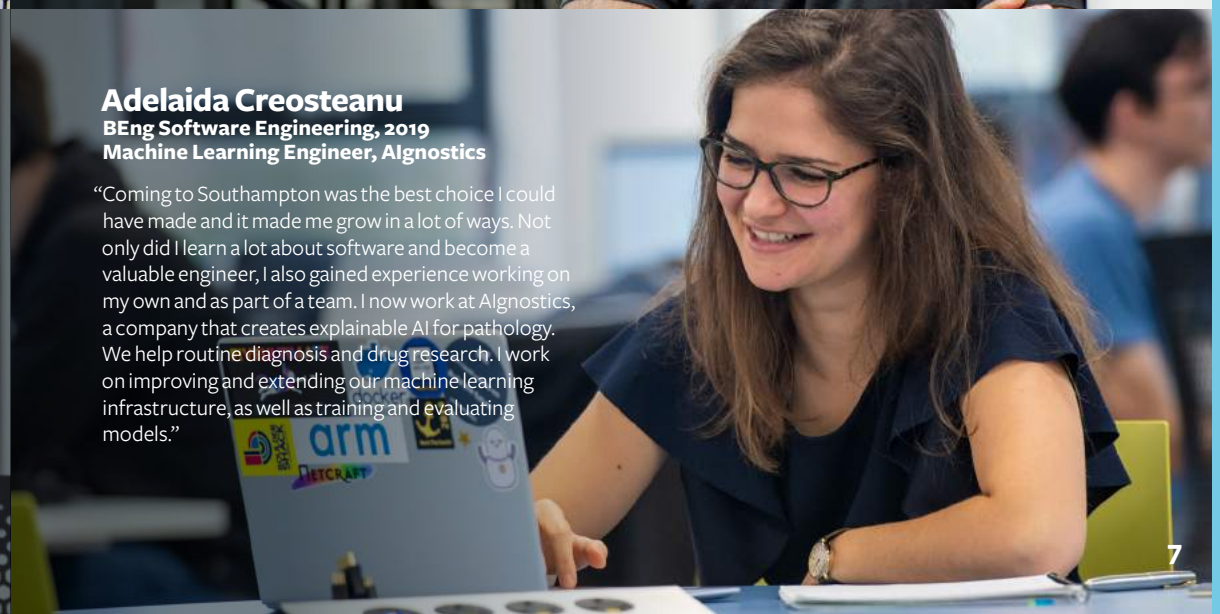
"The greatest achievement of my student career was winning the 2018 UKESF Scholar of the Year Award at the TechWorks Awards Ceremony. I learnt a lot of "real world" skills through my scholarship, particularly the logistics involved with relocating to a new area each summer to take part in summer internships. I also learnt a lot of technical skills. During my internships with UltraSoC, I developed a skill set covering a variety of programming languages such as Python, SystemVerilog, UVM, Perl, HTML, XSLT, Bash, and more."



Joseph Early

MEng Computer Science, 2019
PhD student, University of Southampton/ Alan Turing Institute

"I would thoroughly recommend doing at least one internship during your time at university. They are a fantastic way to develop your skills further and make you far more desirable when you start applying for jobs after university. I completed two internships: one in industry and one as a research assistant in the Computer Science department at Southampton. The latter gave me experience of real academic research and is what encouraged me to do a PhD."



Adelaida Creosteanu

BEng Software Engineering, 2019
Machine Learning Engineer, AIgnostics

"Coming to Southampton was the best choice I could have made and it made me grow in a lot of ways. Not only did I learn a lot about software and become a valuable engineer, I also gained experience working on my own and as part of a team. I now work at AIgnostics, a company that creates explainable AI for pathology. We help routine diagnosis and drug research. I work on improving and extending our machine learning infrastructure, as well as training and evaluating models."

WORLD-CLASS FACILITIES

We offer state-of-the-art, industry-standard equipment that is housed in superb laboratories. The facilities are underpinned by in-lab support from specialist technicians and academic staff.

01 Hardware Projects Laboratory

David Barron Computing Laboratory

A lively and communal facility specifically for taught students, it offers more than 100 powerful individual workstations with ultra-sharp monitors ranging from 27" up to 40". It also provides a unique space for group working, with large tables and wireless collaborative systems connected to to wall-mounted displays of up to 85", and fixed and mobile glassboards for brainstorming ideas.

The workstations provided include Windows 10, Macs and Linux systems. They all have at least a quad-core Intel Core i7 CPU, 16GB RAM and 1TB SSD storage.

Arthur Brunnschweiler Teaching Laboratory

The labs are divided into distinct zones housing bespoke teaching benches with built-in test equipment and high definition monitors, all using a range of industry standard software.

Students can design and conduct rigorous experiments, and assemble test circuits using prototype circuit boards or PCBs.

The Hardware and Software Projects Laboratories

These versatile laboratories suitable for industrial-led projects are for senior undergraduates working on their third and fourth year projects. Each comprises four complementary areas to facilitate the project life cycle from initial concept through design and testing to a functional prototype.

01 Hardware Projects Laboratory

Comprised of an electrical and electronic design and prototyping suite, high voltage (HV) testing area, PCB manufacturing area, and maker space.

02 Software Projects Laboratory

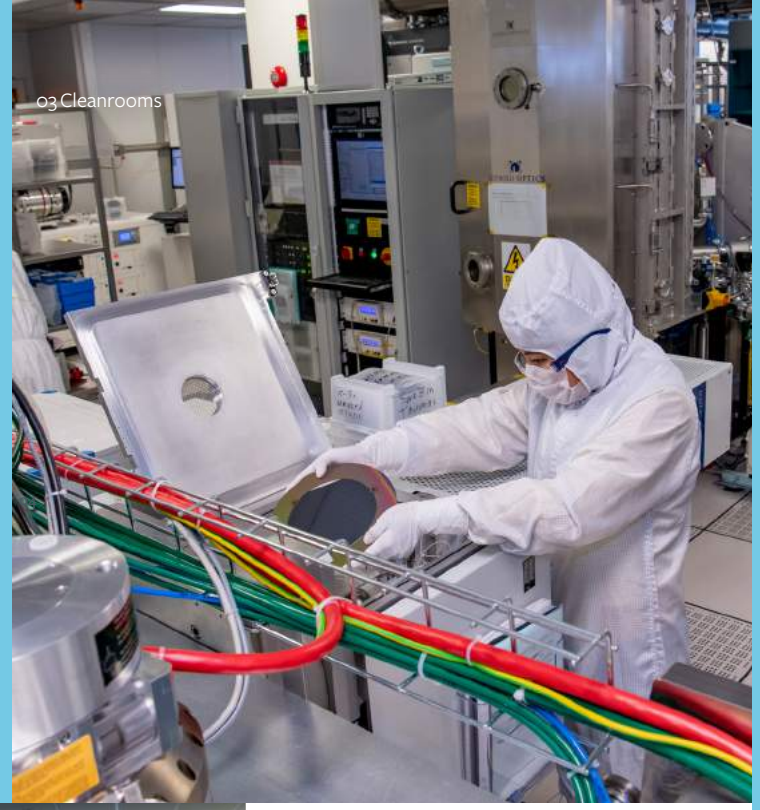
Our computation suite is configured with powerful PCs and high-resolution 38" screens to support demanding computational work, but also provides space for students to bring and connect their own laptops.

Find out more:
www.ecs.soton.ac.uk/facilities

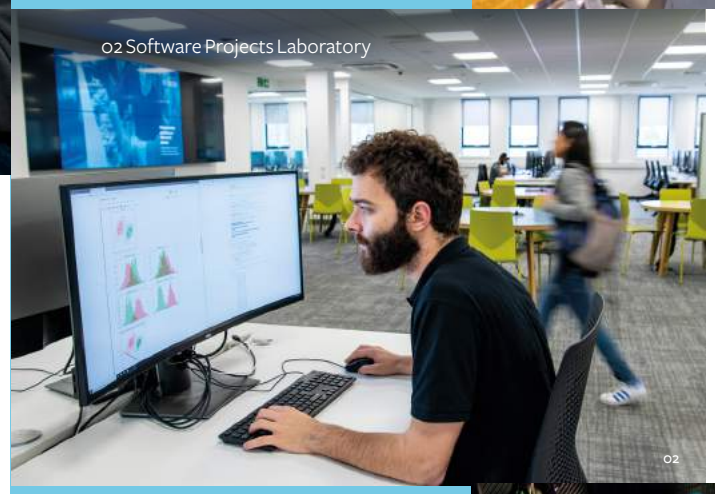
£8m
recently invested in specialist ECS teaching facilities

"At Southampton, we are proud of the multimillion pound investments we have made into our new laboratories. These state-of-the-art facilities ensure our students use the latest technology and facilities, and are provided with a dedicated space to work on hardware and software projects. We are continually improving our teaching and computing laboratories to prepare our students for industry and enterprise of the future."

Professor Paul Lewin
Head of Electronics and Computer Science



03 Cleanrooms



02 Software Projects Laboratory

Students have access to
high-end graphics cards
in 120 of our PCs for deep learning projects on Machine Learning and Artificial Intelligence.

03 Cleanrooms

A 730m² clean room complex. The largest multidisciplinary cleanroom of its type in the UK, offering world-class facilities and expertise in nanoelectronics, photonics fabrication, optoelectronics, quantum technologies, device physics and biotechnology.

04Tony Davies High Voltage Laboratory

A world-class centre for research into dielectric materials, insulation systems, and high voltage and related phenomena. The laboratory houses state-of-the-art facilities and is supported by a specialist engineering team who are all involved in internationally-leading research.

04Tony Davies High Voltage Laboratory

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

Choose Southampton

- Recognised as an Academic Centre of Excellence in Cyber Security Research by the UK Government. We have played a leading role in establishing a European Data Science Academy
- 100 per cent of our Computer Science research impact is recognised as world-leading or internationally excellent*
- University partner of The Alan Turing Institute, the UK's national institute for data science and artificial intelligence
- Opportunities for work placements and internships with more than 150 affiliated companies

100%
Of employed graduates go into professional or managerial roles**

£8m
recent investment
in our state-of-the-art lab facilities

Computer Science has had more than ten UK top ten positions in the *Guardian University Guide* since its launch in 2007

*latest REF, 2014
**Employed graduates are in professional roles within six months of graduation-unistats 2019

Computer scientists are problem solvers, modelling and analysing challenges, and providing solutions in every area of our lives. Software engineers develop the complex, reliable and secure software systems we depend on for everyday activities. Our graduates have a world-leading reputation for creative solutions based on cutting-edge knowledge and state-of-the-art technical skills.

As a student in ECS, you'll be taught by academics who are recognised internationally as leaders in their fields of expertise.

You'll study in specially designed teaching labs that are recognised for the quality of their facilities by professional accreditation panels and visitors.

You can personalise your learning with our flexible programme. Choose interdisciplinary modules or existing modules from other programmes.

Course structure

First year

Cover the fundamentals of algorithms and maths in your lectures and tutorials. Develop yourpractical skills in programming and computer systems with extensive lab and course work.

Second year

Develop your team working through group design exercises and projects. Past challenges have included modelling runway parameters at airports or analysing and visualising data from online advertising campaigns.

Third year

Learn from academics currently researching in the computer science field, who will deliver at least one advanced module in their specialist area. Your individual project will form a major part of your third year studies, and is based on your particular interests.

Fourth year (MEng only)

Take part in an industry-driven group design project enabling you to work with academics to enhance and demonstrate your specialist practical skills. Your group will be matched with an academic working in your field of interest, and receive supervision for the duration of your research project. You'll learn to engineer professionally within a strict budget and deadline.

Professional accreditation and awards

- Our research has achieved international recognition.
- Our degrees are professionally accredited by the British Computer Society and the Institution of Engineering and Technology.
- The University has received the Athena SWAN Silver Award for our commitment to tackle the problem of gender inequality in science.

Subject highlights

INDUSTRIAL PLACEMENT YEAR

Enhance your employability with a year-long paid placement in an engineering organisation and gain vital experience to prepare for your career

I0II | MEng | Computer Science with Industrial Studies

II30 | MEng | Software Engineering with Industrial Studies

Find out more on page 40

Foundation Year

Designed for students without traditional entry qualifications, a Foundation Year provides an entry route to our computer science and engineering degrees.

Find out more on page 42

Facilities

Carry out individual and project work in our unrivalled laboratories. These provide dedicated and accessible spaces for our students.

- Hardware Projects Laboratory
- Software Projects Laboratory
- David Barron Computing Laboratory
- Arthur Brunnschweiler Teaching Laboratory
- Cyber Security Laboratory
- Future Worlds startup accelerator

Find out more
www.ecs.soton.ac.uk/facilities

For more details about our courses visit:
www.southampton.ac.uk/ecs/ugcourses

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: G400
Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

BSc COMPUTER SCIENCE

Choose Southampton

Learn how to develop technologies that can make a difference to people's lives, in fields ranging from medicine and finance, to games and entertainment. You'll cover the main areas of computer science, including topics such as algorithmics, data management, software design and modelling, interaction design, artificial intelligence and cyber security. You'll gain a thorough grounding in the essentials of the discipline, with the flexibility to follow your own interests.

Course structure

Year one | Modules
- Algorithmics
- Computer Systems I
- Data Management
- Foundations of Computer Science
- Professional Development
- Programming I
- Programming II
- Software Modelling and Design

Year two | Modules
- Distributed Systems and Networks
- Intelligent Systems
- Interaction Design
- Programming III
- Programming Language Concepts
- Software Engineering Group Project
- Theory of Computing

Year three | Modules
- Individual Project

Plus optional modules including those on page 13

For the full range of optional module subject areas please see page 38 or visit the website.

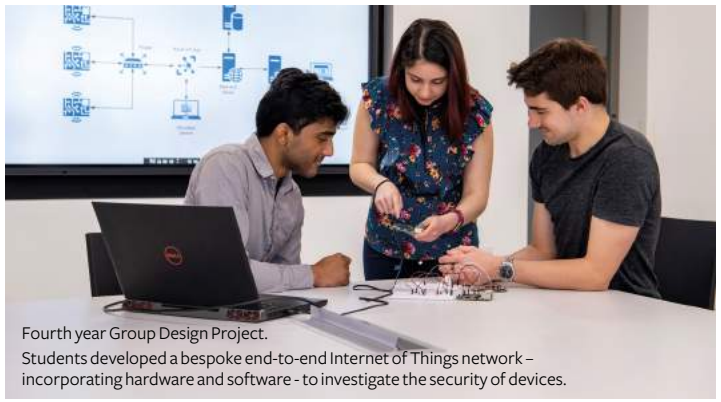
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/cs
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng COMPUTER SCIENCE

Choose Southampton

You'll gain advanced technical knowledge and professional skills to prepare you for roles such as app developer, Web developer, software engineer or systems analyst. The MEng Computer Science builds on the three year BSc Computer Science. In your fourth year you'll develop key professional skills by undertaking a real-world project for an industry customer. You'll have excellent job prospects in a growing sector.



Fourth year Group Design Project.
Students developed a bespoke end-to-end Internet of Things network – incorporating hardware and software - to investigate the security of devices.

Course structure

Year one | Modules

Refer to BSc Computer Science page 12 for modules

Year two | Modules

Refer to BSc Computer Science page 12 for modules

Year three | Modules
- Individual Project
- Engineering Management and Law

Plus optional modules including:
Machine Learning Technologies, Advanced Computer Networks, Cloud Application Development, Cyber Security, Robotic Systems, Social Computing Techniques, Web infrastructure

Year four | Modules
- Group Design Project

Plus optional modules including:
Advanced Intelligent Agents, Cryptography, Evolution of Complexity, Software Security, Wireless Networks

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56

Duration: four years
UCAS code: G401
Duration: five years with Industrial Studies
UCAS code: 1011

Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/cs
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: G4GR
Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

MEng COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE

Choose Southampton

With a strong foundation in computer science and in-depth specialist artificial intelligence knowledge, you'll have great career prospects. You'll gain the technical and transferable skills for roles such as a computer vision engineer or AI analyst. This degree carefully balances theory and practice to give you a full computer science and AI training.
You can then tailor the course through your choice of optional modules – focusing on deep learning, for example, or investigating robotics.


As part of the DAIS ITA project, we are looking at the use of distributed analytics to provide situational awareness in crisis situations

Course structure

Year one | Modules
Refer to BSc Computer Science page 12 for modules

Year two | Modules
- → Distributed Systems and Networks
- → Intelligent Systems
- → Interaction Design
- → Programming III
- → Programming Language Concepts
- → Software Engineering Group Project
- → Theory of Computing

Year three | Modules
- → Engineering Management and Law
- → Individual Project

Plus optional modules including:
Machine Learning Technologies, Computer Vision, Game Design and Development, Social Computing Techniques

Year four | Modules
- → Group Design Project

Plus optional modules including:
Deep Learning, Intelligent Agents, Advanced Machine Learning, Algorithmic Game Theory, Biologically Inspired Robotics

For the full range of optional module subject areas please see page 38 or visit the website.

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/cs
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng COMPUTER SCIENCE WITH CYBER SECURITY

Choose Southampton

A global shortage of specialist cyber security professionals means at graduation your skills will be in demand for roles such as cyber security consultant, information security manager, network security analyst, or penetration tester. You'll gain a thorough grounding in the essentials of computer science, which forms a foundation for your cyber security studies. In specialist modules, you'll learn how to identify and address vulnerabilities in software, internet-connected devices, Web-based and networked systems.


For his individual project Jack Corbett hacked Alexa by building malicious skills that steal a user's personal data

Course structure

Year one | Modules
Refer to BSc Computer Science page 12 for modules

Year two | Modules
- → Computer Systems II
- → Distributed Systems and Networks

Plus optional modules

Year three | Modules
- → Engineering Management and Law
- → Security of Cyber Physical Systems
- → Individual Project

Plus optional modules including:
Advanced Databases, Cloud Application Development, Cyber Security, Robotic Systems

Year four | Modules
- → Network and Web Based Security
- → Software Security
- → Group Design Project

Plus optional modules including:
Biometrics, Cyber Crime, Insecurity and the Dark Web (Cyber Security), E-Business Strategy, Web Architecture

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: I110
Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/cs
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: G4G6
Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreqwww.southampton.ac.uk/ecs/entryreq

BEng SOFTWARE ENGINEERING

Choose Southampton

Learn how to develop the reliable, complex and secure software systems we all depend on – from mobile banking apps to aircraft autopilot controls. You'll learn how to analyse a company's software needs, and how to design, test and build a system that meets those needs. With a qualification that is highly respected among employers, and technical skills that are sought after all over the world, you'll be prepared for a financially rewarding career.

Course structure

Year one | Modules
- Algorithmics
- Computer Systems I
- Data Management
- Foundations of Computer Science
- Professional Development
- Programming I
- Programming II
- Software Modelling and Design

Year two | Modules
- Advanced Software Modelling and Design
- Distributed Systems and Networks
- Intelligent Systems
- Interaction Design
- Programming III
- Programming Language Concepts
- Software Engineering Group Project
- Theory of Computing

Year three | Modules
- Individual Project

Plus optional modules

For the full range of optional module subject areas please see page 38 or visit the website.

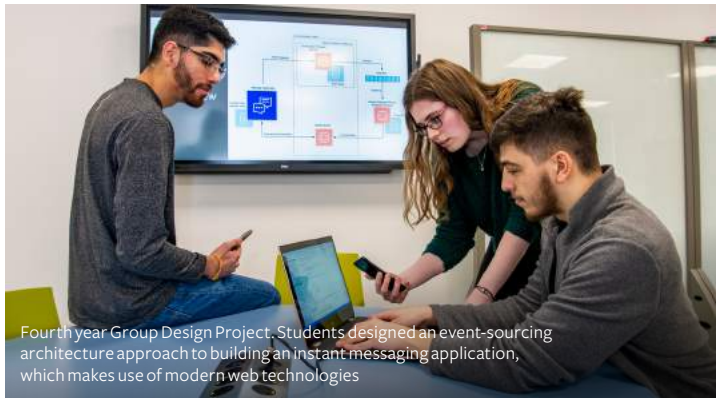
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/se
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng SOFTWARE ENGINEERING

Choose Southampton

Put your skills into practice and experience working for a real industry or academic customer when you undertake your fourth year group design project. Your advanced technical knowledge and professional skills will prepare you for roles such as software engineer, software developer, app designer, web developer or IT solution analyst. The first three years of the MEng Software Engineering degree follow the same course structure as the BEng.



Fourth year Group Design Project. Students designed an event-sourcing architecture approach to building an instant messaging application, which makes use of modern web technologies

Course structure

Year one | Modules

Refer to BEng Software Engineering page 16 for modules

Year two | Modules

Refer to BEng Software Engineering page 16 for modules

Year three | Modules
- Engineering Management and Law
- Individual Project

Plus optional modules including:

Advanced Databases, Cyber Security, Real-Time Computing and Embedded Systems, Computational Biology, Game Design and Development, Robotic Systems, Machine Learning Technologies.

Year four | Modules
- Group Design Project

Plus optional modules including:

Automated Code Generation, Web Development, Advanced Intelligent Agents, Biologically Inspired Robotics, Computational Finance, Data Mining, Evolution of Complexity, Semantic Web Technologies, Wireless Networks

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Klaus-Peter Zauner
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: G600
Duration: five years with Industrial Studies
UCAS code: I130
Entry requirements
A-Levels: A*AA, including mathematics (minimum grade A) or **A*A*B,** including mathematics (minimum grade A*)
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Accreditation:
British Computer Society and the Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreqwww.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/se
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

ELECTRONIC AND ELECTRICAL ENGINEERING

Choose Southampton

- World-renowned academics and excellent industry standard facilities
- £8m investment in our undergraduate laboratories
- The average starting salary for our MEng Electronic Engineering graduates is £29,000*
- More elite scholarships from the UK Electronics Skills Foundation have been awarded to ECS than to any other university

Our degrees are accredited by the Institution of Engineering and Technology

3rd
in the UK for career prospects**
92% of graduates are in professional roles or further study within six months of graduation

4th
in the UK for Electrical & Electronic Engineering***

*Unistats, 2019
***Guardian University Guide*, 2020
**** Complete University Guide*, 2021

Electronics is the study of the physical components, software and systems that bring electronic devices to life, while electrical engineering investigates the generation, distribution and use of electricity on a large scale. Electrical and electronic engineering enables you to learn about both disciplines. Southampton has an unrivalled reputation in electronic and electrical engineering and our graduates are employed worldwide in highly prestigious positions.

As a student in ECS, you'll be taught by academics who are recognised internationally as leaders in their fields of expertise.

You'll study in specially designed teaching labs that are recognised for the quality of their facilities by professional accreditation panels and visitors.

You can personalise your learning with our flexible programme. Choose interdisciplinary modules alongside contemporary topics such as artificial intelligence from related areas of computer science.

Course structure

First year

Develop your practical skills through an extensive portfolio of laboratory classes while being introduced to a range of fundamental electrical and electronic topics in an accessible manner.

Second year

Continue to build your core technical knowledge, carrying out design exercises and group projects to gain experience in team working. Past challenges include creating a home AI system and the design/build of a quadrocopter.

Third year

Personalise your degree by selecting from a wide range of options delivered by over 100 different academics with a diverse range of specialisms. You will also spend the year delivering a major individual research project.

Fourth year (MEng only)

Choose five options from our wide portfolio, as well as taking part in an intensive group design project where you will put your technical skills into practice to deliver against an industrial specification.

Subject highlights ✓

INDUSTRIAL PLACEMENT YEAR

Enhance your employability with a year-long paid placement in an engineering organisation and gain vital experience to prepare for your career

H611 | MEng | Aerospace Electronic Engineering with Industrial Studies

B901 | MEng | Biomedical Electronic Engineering with Industrial Studies

HH62 | MEng | Electrical Engineering with Industrial Studies

HH60 | MEng | Electrical and Electronic Engineering with Industrial Studies

HH61 | MEng | Electronic Engineering with Industrial Studies

H36H | MEng | Mechatronic Engineering with Industrial Studies

Find out more on page 40

Facilities

You'll work in high-spec electronics and computer labs equipped with the latest equipment, hardware and software. You could also undertake work in our state of- the-art nanofabrication cleanrooms or in the Tony Davies High Voltage Laboratory – a centre for cutting-edge electrical power research, one of just a few labs of its kind in the UK.

Professional accreditation and awards

- Our work has been recognised nationally and internationally.
- Our degrees are accredited by the Institution of Engineering and Technology
- The University has also received the Athena SWAN Silver Award for its commitment to tackle the problem of gender inequality in science

Foundation Year

Designed for students without traditional entry qualifications, a Foundation Year provides an entry route to our computer science and engineering degrees.

Find out more on page 42

For more details about our courses visit:
www.southampton.ac.uk/ecs/ugcourses

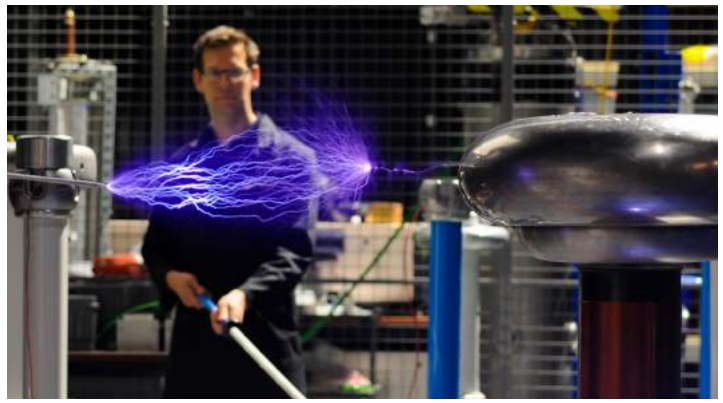
Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: H620
Entry requirements
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable.
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme). www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

BEng ELECTRICAL ENGINEERING

Choose Southampton

Enter the world of large-scale electrical power and learn to develop systems and technologies that will underpin our power networks for decades to come. From sustainable energy generation to the use of electric vehicles, big changes in the way we produce and use power are posing exciting challenges for today's electrical engineers. This course will equip you with the skills to address these challenges.



Course structure

Year one | Modules
- Digital Systems and Microprocessors
- Electrical Materials and Fields
- Electronic Circuits
- Electronic Systems
- Mathematics for Electronic and Electrical Engineering
- Mechanics
- Programming
- Solid State Devices

Year two | Modules
- Applied Electromagnetics
- Control and Communications
- Electrical Machines
- Engineering Design
- Materials
- Mathematics for Electronics and Electrical Engineering Part II
- Power Circuits and Transmission
- Power Electronics and Drives

Year three | Modules
- High Voltage Engineering
- Power Systems Technology
- Individual Project

Plus optional modules

For the full range of optional module subject areas please see page 38 or visit the website.

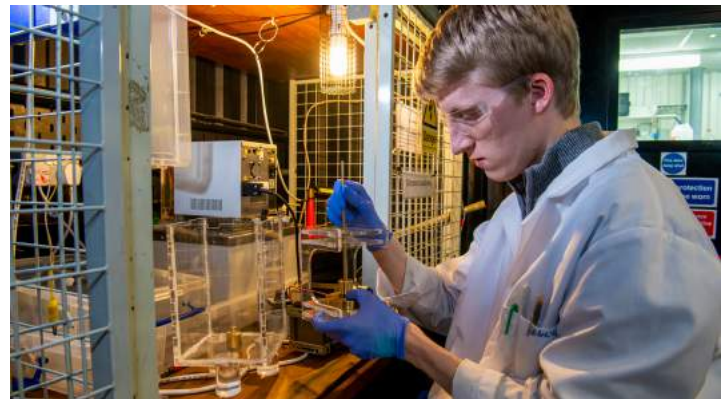
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ee
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRICAL ENGINEERING

Choose Southampton

Prepare to play a leading role in one of today's most critical industries, and contribute to the development of a smarter, greener and more secure electric power grid. Gain the skills to run and monitor large-scale energy distribution systems. You'll have excellent career prospects due to a shortage of qualified electrical engineers. You'll learn in outstanding facilities and be taught by expert academics. The MEng degree builds on the three-year BEng degree.



Course structure

Year one | Modules

Refer to BEng Electrical Engineering page 20 for modules

Year two | Modules

Refer to BEng Electrical Engineering page 20 for modules

Year three | Modules
- Engineering Management and Law
- High Voltage Engineering
- Power Systems Technology
- Individual Project

Plus optional modules including:

Robotic Systems, Control System Design, Digital Control System Design, Power Systems Engineering, Introduction to Bionanotechnology

Year four | Modules
- Group Design Project

Plus optional modules including:

Power System Economics, Power Generation: Technology and Impact on Society, Power and Distribution, High Voltage Insulation Systems, Power Electronics for DC Transmission, Medical Electrical and Electronic Technologies

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H601
Duration: five years with Industrial Studies
UCAS code: HH62
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable.
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme). www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ee
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: H600
Entry requirements
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme) www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

BEng ELECTRICAL AND ELECTRONIC ENGINEERING

Choose Southampton

Study across the spectrum of electrical and electronic engineering and gain the skills to solve some of today's biggest engineering challenges. You'll be equipped to design new technologies in the many sectors where knowledge of both disciplines is crucial. Smarter energy distribution, more efficient hybrid vehicles, cleaner power generation and intelligent robotics are just some examples. Outstanding facilities and strong industry links make Southampton a great place to study these interconnected subjects.

Course structure

Year one | Modules
- Digital Systems and Microprocessors
- Electrical Materials and Fields
- Electronic Circuits
- Electronic Systems
- Mathematics for Electronic and Electrical Engineering
- Programming
- Solid State Devices
- Advanced Programming or Mechanics

Year two | Modules
- Control and Communications
- Digital Systems and Signal Processing
- Electrical and Electronic Engineering Design
- Electromagnetism for EEE
- Mathematics for Electronics and Electrical Engineering Part II
- Power Circuits and Transmission
- Power Electronics and Drives

Plus one optional module

Year three | Modules
- Individual Project

Plus optional modules including:

Control System Design, Digital IC and Systems Design, Wireless and Optical Communications, High Voltage Engineering, Embedded Networked Systems, Green Electronics, Power Systems Technology

For the full range of optional module subject areas please see page 38 or visit the website.

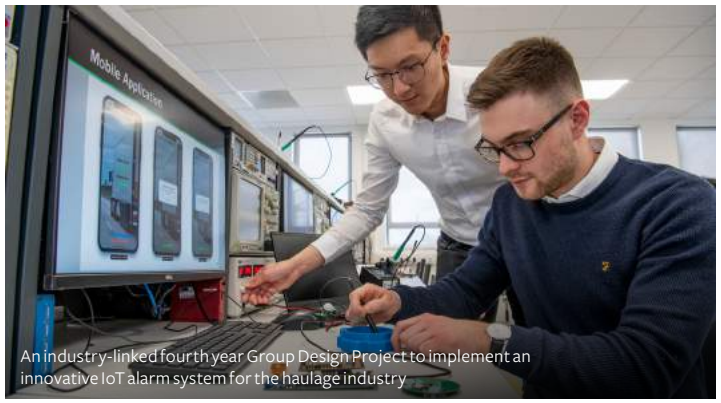
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/eee
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRICAL AND ELECTRONIC ENGINEERING

Choose Southampton

Prepare for an exciting career in one of the many sectors where electronic and electrical engineering meet – from electric vehicle design to the development of smart biomedical devices. Advanced professional and technical skills, and the ability to approach problems from both an electrical and electronic engineering perspective, will give you excellent career prospects. The MEng degree builds on the three year BEng degree.



An industry-linked fourth year Group Design Project to implement an innovative IoT alarm system for the haulage industry

Course structure

Year one | Modules

Refer to BEng Electrical and Electronic Engineering page 22 for modules

Year two | Modules

Refer to BEng Electrical and Electronic Engineering page 22 for modules

Year three | Modules
- Engineering Management and Law
- Individual Project

Plus optional modules including:

Control System Design, Digital IC and Systems Design, Wireless and Optical Communications, High Voltage Engineering, Embedded Networked Systems, Green Electronics, Power Systems Technology

Year four | Modules
- Group Design Project

Plus optional modules including:

Wireless Networks, Image Processing, Cryptography, Power System Economics, High Voltage Insulation Systems, Data Mining, Embedded Processors

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H602
Duration: five years with Industrial Studies
UCAS code: HH60
Entry requirements
A-levels: A*AA, includincg mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics , computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme) www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/eee
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

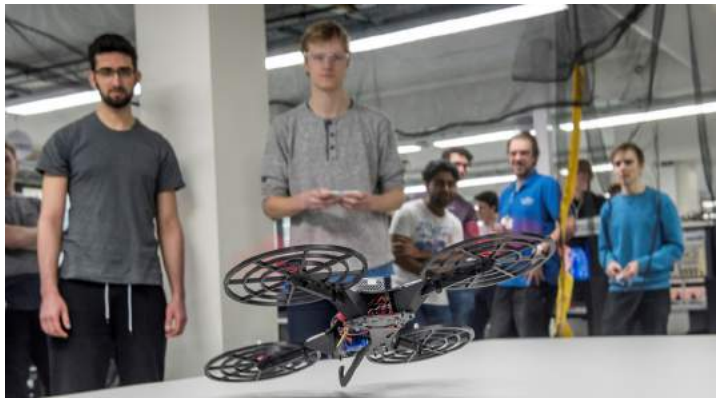
BEng AEROSPACE ELECTRONIC ENGINEERING

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: H403
Entry requirements
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Choose Southampton

Prepare for a career in the aerospace industry and help to design the aircraft and spacecraft of the future. This degree gives you a unique opportunity to learn about core areas of electronics and gain specialist knowledge of aerospace electronic systems. You'll learn from experts with real industry experience; our academics have worked on projects with NASA and the European Space Agency (ESA).



Course structure

Year one | Modules
- Digital Systems and Microprocessors
- Electronic Circuits
- Electronic Systems
- Flight Mechanics and Aerospace Systems Engineering
- Mathematics for Electronic and Electrical Engineering
- Mechanics
- Programming
- Solid State Devices

Year two | Modules
- Mathematics for Electronics and Electrical Engineering Part II
- Control and Communications
- Digital Systems and Signal Processing
- Electrical Machines
- Power Electronics and Drives
- Electromechanical Energy Conversion
- Aerospace Electronics Design
- Radar Techniques and Applications

Year three | Modules
- Guidance, Navigation and Control
- Space Systems Engineering
- Individual project

Plus optional modules including:

Mechanical Power Transmission and Vibration, Manufacturing and Materials, Automobile Systems, Security of Cyber Physical Systems

For the full range of optional module subject areas please see page 38 or visit the website.

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/aero
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng AEROSPACE ELECTRONIC ENGINEERING

Choose Southampton

Gain the skills to work in a large aerospace engineering company or work for one of the smaller technology companies that supply them. The MEng degree builds on the three-year BEng Aerospace Electronic degree.
A distinctive feature of the four-year programme is the group design project, where you'll put your skills into practice and experience working for an industry or academic customer.

Course structure

Year one | Modules

Refer to BEng Aerospace Electronic Engineering page 24 for modules

Year two | Modules

Refer to BEng Aerospace Electronic Engineering page 24 for modules

Year three | Modules
- Individual Project
- Engineering Management and Law
- Guidance, Navigation and Control
- Space Systems Engineering

Plus optional modules

Mechanical Power Transmission and Vibration, Manufacturing and Materials, Automobile Systems, Security of Cyber Physical Systems

Year four | Modules
- Group Design Project

Plus optional modules including:

GPS and its Applications, Robotic (Autonomous) Aerospace Vehicles, Electronics for Spacecraft

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H402
Duration: five years with Industrial Studies
UCAS code: H61I
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/aero
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: BB90
Entry requirements:
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics, chemistry, biology or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

BEng BIOMEDICAL ELECTRONIC ENGINEERING

Choose Southampton

Join the next generation of digital health technology engineers and design the health and wellbeing devices of the future. This unique degree combines our highly regarded electronics training with the study of biomedicine, giving you the skills to create sensors, apps and digital systems for a range of applications – from rehabilitation following a stroke to the management of conditions such as diabetes. This course will equip you for a career in a thriving sector.

Course structure

Year one | Modules

- Digital Systems and Microprocessors
- Electrical Materials and Fields
- Electronic Circuits
- Electronic Systems for Biomedicine
- Mathematics for Electronic and Electrical Engineering
- Molecular Basis of Life
- Programming
- Solid State Devices

Year two | Modules

- Advanced Electronic Systems
- Biomedical Control
- Fundamentals of Cell Biology and Physiology
- Digital Systems and Signal Processing
- Health Technologies Design Project
- Mathematics for Electronics and Electrical Engineering Part II
- Semiconductor Devices and Sensors

Year three | Modules

- Biosensors and Diagnostics
- Principles of Neuroscience
- Individual Project

Plus optional modules including:

Signal and Image processing, Computational Biology, Machine Learning Technologies, Robotic Systems, Digital Control Systems Design

For the full range of optional module subject areas please see page 38 or visit the website.

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/bio
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng BIOMEDICAL ELECTRONIC ENGINEERING

Choose Southampton

The four-year integrated masters degree builds on the BEng course. In your fourth year you'll undertake a group design project for a real-world customer, giving you invaluable professional experience. You'll have excellent career prospects–employers seek out our students because they are equipped to start contributing in the workplace straight away.

Course structure

Year one | Modules

Refer to BEng Biomedical Electronic Engineering page 26 for modules

Year two | Modules

Refer to BEng Biomedical Electronic Engineering page 26 for modules

Year three | Modules

- Biosensors and Diagnostics
- Engineering Management and Law
- Principles of Neuroscience
- Individual Project

Plus optional modules including:

Signal and Image Processing , Computational Biology, Machine Learning Technologies, Robotic Systems, Digital Control Systems Design

Year four | Modules

- Group Design Project
- Medical Sensors and Instrumentation
- Microfluidics and Lab-on-a-Chip

Plus optional modules including:

Bio/Micro/Nano Systems, Biologically Inspired Robotics, Microsensor Technologies, Nanofabrication and Microscopy, Image Processing

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: B90B
Duration: five years with Industrial Studies
UCAS code: B90I
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, chemistry, biology or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/bio
Or to have specific questions answered:
T:+44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

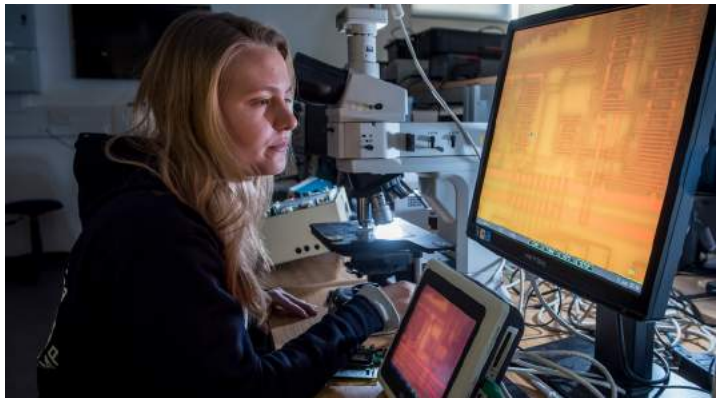
Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: H610
Entry requirements:
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

BEng ELECTRONIC ENGINEERING

Choose Southampton

Learn about the components within electronic systems and how they work together, for example to analyse data or display information on a screen. It's a technical but also highly creative subject; you'll learn to solve problems by designing, building and testing new electronic systems – skills that can be applied to real-world challenges ranging from sustainable energy production to cyber security. You'll benefit from outstanding facilities, a range of optional modules and strong industry links.



Course structure

Year one | Modules
- Programming
- Advanced Programming
- Digital Systems and Microprocessors
- Electrical Materials and Fields
- Electronic Circuits
- Electronic Systems
- Mathematics for Electronic and Electrical Engineering
- Solid State Devices

Year two | Modules
- Control and Communications
- Digital Systems and Signal Processing
- Electromagnetism for Communications
- Electronic Design
- Mathematics for Electronics and Electrical Engineering Part II

Plus optional modules

Devices, Computer Engineering, Advanced Electronic Systems, Photonics I

Year three | Modules
- Individual Project

Plus optional modules including:

Robotic Systems, Digital IC and Systems Design, Computational Biology, Web and Cloud-Based Security, Digital Coding and Transmission, Photonics II, Foundations of Machine Learning

For the full range of optional module subject areas please see page 38 or visit the website.

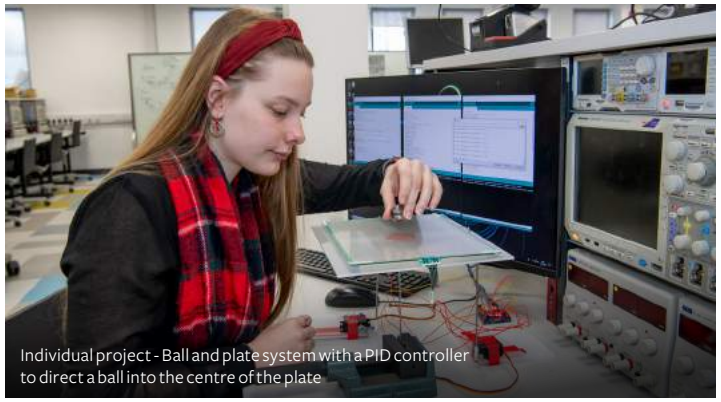
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRONIC ENGINEERING

Choose Southampton

Be prepared for professional and managerial roles such as electronic engineer, design and development engineer, technology analyst or systems engineer. The MEng builds on the BEng Electronic degree. In your fourth year you'll undertake a group design project for a real-world customer, giving you invaluable professional experience. You'll have excellent career prospects; employers seek out our students because they are equipped to start contributing in the workplace straight away.


Individual project - Ball and plate system with a PID controller to direct a ball into the centre of the plate

Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year three | Modules
- Engineering Management and Law
- Individual Project

Plus optional modules including:

Robotic Systems, Digital IC and Systems Design, Computational Biology, Web and Cloud-Based Security, Digital Coding and Transmission, Photonics II, Foundations of Machine Learning

Year four | Modules
- Group Design Project

Plus optional modules including:

Wireless Networks, Wireless Transceiver Design and Implementation, Digital Systems Synthesis, Microfabrication, Quantum Devices and Technology, Computational Finance, Deep Learning

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H603
Duration: five years with Industrial Studies
UCAS code: HH61
Entry requirements:
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

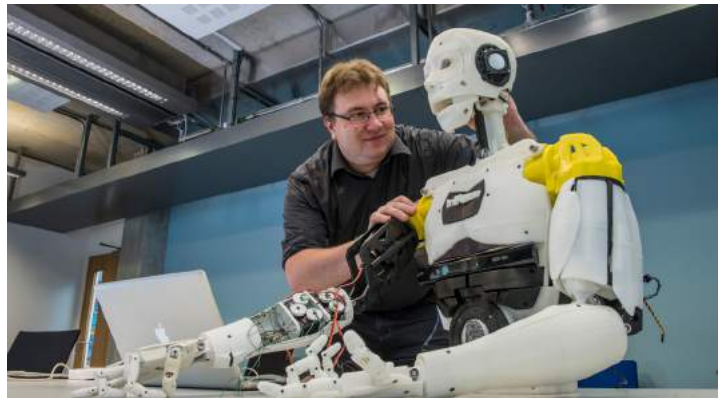
Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H6G7
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

MEng ELECTRONIC ENGINEERING WITH ARTIFICIAL INTELLIGENCE

Choose Southampton

Prepare for a role in one of today's most dynamic and exciting areas of technology. From facial recognition software to self-driving cars, artificial intelligence (AI) plays a growing role in everyday life. You'll gain the skills to develop the intelligent technologies of tomorrow. A long-established centre for AI research, we offer a range of specialist options, both in terms of the number of modules and the breadth of topics you can explore. You'll graduate with a skill set that is in huge demand across industry and business.



Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two |Modules

Refer to BEng Electronic Engineering page 28 for modules

Year three | Modules

- Engineering Management and Law
- Foundations of Machine Learning
- Individual Project

Plus optional modules including:

Computational Biology, Robotic Systems, Signal and Image Processing, Web and Cloud-Based Security

Year four | Modules

- Group Design Project

Plus optional modules including:

Evolution of Complexity, Advanced Machine Learning, Computational Finance, Computer Vision, Data Mining

For the full range of optional module subject areas please see page 38 or visit the website.

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRONIC ENGINEERING WITH COMPUTER SYSTEMS

Choose Southampton

Gain a complete understanding of the components that underpin today's computers and electronic devices, and the skills to design new reliable and secure computer systems. You'll have the freedom to choose from a huge breadth of options, including numerous specialist modules, taught in labs that are among the best in the UK. Our academic expertise and strong links with microprocessor technology companies ensure our electronic engineering courses reflect the latest advances in computer systems.

Bradley McLaughlin built a device for monitoring the air quality within primary school classrooms for his third year individual project

Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two |Modules

- Computer Engineering
- Control and Communications
- Digital Systems and Signal Processing
- Electromagnetism for Communications
- Electronic Design
- Mathematics for Electronics and Electrical Engineering Part II

Plus optional modules

Devices, Advanced Electronic Systems, Photonics I

Year three | Modules

- Digital IC and Systems Design
- Engineering Management and Law
- Individual Project

Plus optional modules including:

Realtime Computing and Embedded Systems, Advanced Computer Architecture, Embedded Networked Systems, Web and Cloud-Based Security

Year four | Modules

- Group Design Project

Plus optional modules including:

VLSI System Design, Digital Systems Synthesis, Embedded Processors, SOC Design Project, Secure Hardware and Embedded Devices

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H6G4
Entry requirements:
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

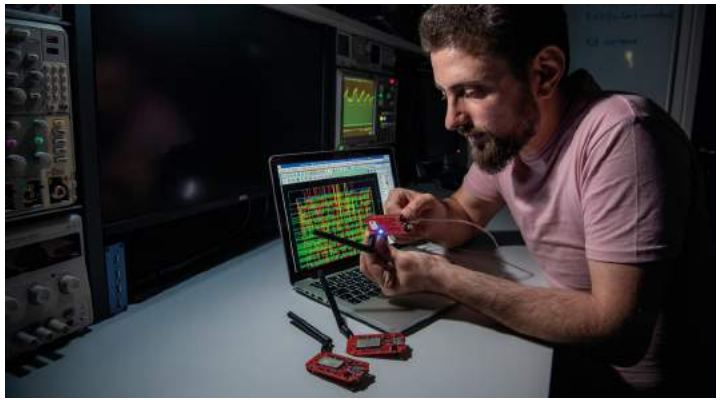
MEng ELECTRONIC ENGINEERING WITH MOBILE AND SECURE SYSTEMS

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H691
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Choose Southampton

Learn how to develop secure electronic systems and devices, and help protect individuals, businesses and governments against the growing threat of cyber crime and data breaches. Southampton is a centre of excellence for cyber security research, which means you'll learn from experts who are contributing to the latest advances in the field. You'll graduate with superb career prospects in industry and the public sector, where cyber security skills are in great demand.



Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year three | Modules

- Engineering Management and Law
- Security of Cyber Physical Systems
- Individual Project

Plus optional modules including:

Web and Cloud Based Security, Real time Computing and Embedded Systems, Embedded Networked Systems

Year four | Modules

- Group Design Project

Plus optional modules including:

Wireless Networks, Cryptography, Advanced Wireless Communications Networks and Systems

For the full range of optional module subject areas please see page 38 or visit the website.

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRONIC ENGINEERING WITH NANOTECHNOLOGY

Choose Southampton

Gain the skills to design and test microscopic electronic devices, and learn about innovations in nanotechnology that will underpin the next generation of computing and electronics. Our superb nanofabrication facilities attract the most talented researchers which means you'll learn from experts who are involved in the latest advances in the field. You'll have the flexibility to choose from a range of optional modules in nanotechnology and across the spectrum of electronics and computer science.

Examining silicon wafers in the clean room complex

Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two | Modules

- Control and Communications
- Devices
- Digital Systems and Signal Processing
- Electromagnetism for Communications
- Electronic Design
- Mathematics for Electronics and Electrical Engineering Part II

Plus optional modules

Computer Engineering, Advanced Electronic Systems, Photonics I

Year three | Modules

- Engineering Management and Law
- Nanoelectronic Devices
- Individual Project

Plus optional modules including:

Green Electronics, Photonics II, Introduction to Bionanotechnology

Year four | Modules

- Group Design Project

Plus optional modules including:

Microfabrication, Microsensor Technologies, Microfluidics and Lab-on-a-chip, Quantum Devices and Technology

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H611
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

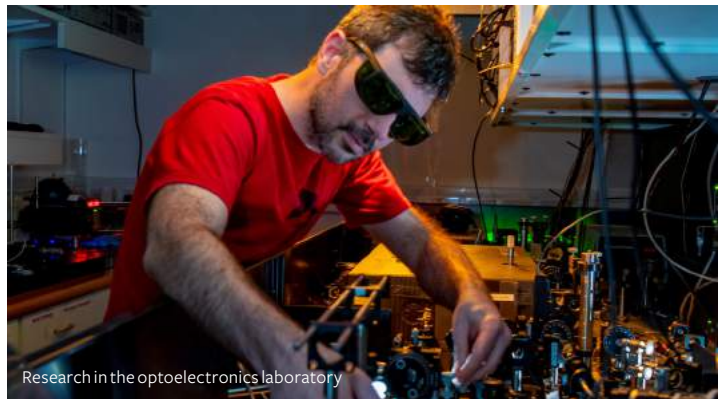
Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H680
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

MEng ELECTRONIC ENGINEERING WITH PHOTONICS

Choose Southampton

Enhance your electronic engineering degree with specialist training in photonics – the science and technology of light. Home to the UK's largest photonics research centre, we're the only UK university to offer an undergraduate electronic engineering degree with photonics. You can choose from an unrivalled range of specialist modules, covering the latest advances in areas such as quantum devices and optical fibre technology. Your skill set will prepare you for a successful career in photonics.


Research in the optoelectronics laboratory

Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two | Modules

- Control and Communications
- Digital Systems and Signal Processing
- Electromagnetism for Communications
- Electronic Design
- Mathematics for Electronics and Electrical Engineering Part II
- Photonics I

Plus optional modules

Computer Engineering, Advanced Electronic Systems, Devices

Year three | Modules

- Engineering Management and Law
- Individual Project

Plus optional modules including:

Photonics II, Digital Coding and Transmission, Wireless and Optical Communications, Nanoelectronic Devices

Year four | Modules

- Group Design Project

Plus optional modules including:

Silicon Photonics, Optical Fibres, Advanced Fibre Telecommunications, Optical Fibre Systems

For the full range of optional module subject areas please see page 38 or visit the website.

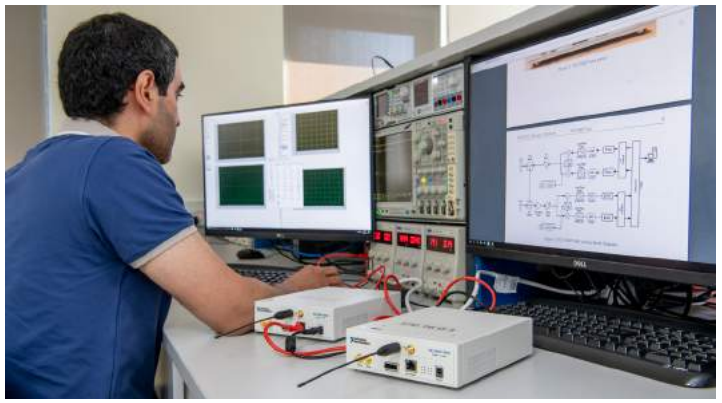
Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

MEng ELECTRONIC ENGINEERING WITH WIRELESS COMMUNICATIONS

Choose Southampton

Gain the knowledge and practical skills to meet industry's growing need for wireless communications professionals. From Wi-Fi to satellite navigation systems, wireless communications underpin the technologies we take for granted today. It's a sector that's set to boom as wireless connectivity becomes integral to more and more devices. If you are interested in mathematical theory and want to apply it to real-world electronic engineering problems, this course will suit you.



Course structure

Year one | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year two | Modules

Refer to BEng Electronic Engineering page 28 for modules

Year three | Modules

- Digital Coding and Transmission
- Engineering Management and Law
- Individual Project

Plus optional modules including:

Signal and Image Processing, Wireless and Optical Communications, Security of Cyber Physical Systems

Year four | Modules

- Group Design Project

Plus optional modules including:

Advanced Wireless Communications Networks and Systems, Wireless Transceiver Design and Implementation, Wireless Networks, Future Wireless Techniques, Machine Learning for Wireless Communications

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: H641
Entry requirements:
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics, computer science or further mathematics. A pass in the Science Practical is required where applicable
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation www.southampton.ac.uk/ecs/money
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/ele
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: three years
UCAS code: HH36
Entry requirements:
A-levels: AAA, including mathematics and an additional required subject†
or **A*AB,** including grades A*A in mathematics and an additional required subject (in any order)†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme)
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/me
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

BEng MECHATRONIC ENGINEERING

Choose Southampton

Gain the skills to design intelligent machines – from electric vehicles to large-scale industrial robots. You'll study electrical and mechanical engineering, alongside elements of electronics and programming. You'll learn how to integrate these disciplines in the design of systems that rely on mechanical elements, electrical power, sensing and control. The increasing complexity of electro-mechanical systems has led to a demand for engineers with this multidisciplinary skill set, so you'll graduate with excellent job prospects.

Course structure

Year one | Modules
- Digital Systems and Microprocessors
- Electrical Materials and Fields
- Electronic Circuits
- Electronic Systems
- Mathematics for Electronic and Electrical Engineering
- Mechanics
- Programming
- Solid State Devices

Year two | Modules
- Circuits and Systems
- Control and Communications
- Electrical Machines
- Electromechanical Energy Conversion
- Engineering Design
- Materials
- Mathematics for Electronics and Electrical Engineering Part II
- Power Electronics and Drives

Year three | Modules
- Fluids and Mechanical Materials
- Mechanical Power Transmission and Vibration
- Power Systems Technology
- Individual Project

Plus optional modules including:
Robotic Systems, Control Systems Design, Space Systems Engineering, Manufacturing and Materials, Automobile Systems

For the full range of optional module subject areas please see page 38 or visit the website.

MEng MECHATRONIC ENGINEERING

Choose Southampton

Prepare for a leading role in the development of tomorrow's intelligent machines and devices. The MEng builds on the three year BEng degree. In your fourth year you'll undertake a group design project for a real-world customer, giving you invaluable professional experience. You'll be equipped to work in any field of engineering that combines mechanical engineering and electronics.

Course structure

Year one | Modules
Refer to BEng Mechatronic Engineering page 36 for modules

Year two | Modules
Refer to BEng Mechatronic Engineering page 36 for modules

Year three | Modules
- Engineering Management and Law
- Individual Project
- Power Systems Technology
- Fluids and Mechanical Materials
- Mechanical Power Transmission and Vibration

Plus optional modules including:
Robotic Systems, Control Systems Design, Space Systems Engineering, Manufacturing and Materials, Automobile Systems

Year four | Modules
- Group Design Project

Plus optional modules including:
Biologically Inspired Robotics, Medical Electrical and Electronic Technology, Power Systems Economics, Microsensor Technologies

For the full range of optional module subject areas please see page 38 or visit the website.

Key information

Senior Admissions Tutor:
Dr Stuart Boden
Start date: September 2021
Fees: see page 56
Duration: four years
UCAS code: HHH6
Duration: five years with Industrial Studies
UCAS code: H36H
Entry requirements
A-levels: A*AA, including mathematics and an additional required subject†
or **A*A*B,** including grades A*A* in mathematics and an additional required subject†
†Either physics, electronics or further mathematics. A pass in the Science Practical is required where applicable
Language requirements:
band B IELTS 6.5 overall, with a minimum of 5.5 in all components. For more information on other English language qualifications approved by the University, please refer to our website
Selection process:
UCAS application
Funding: scholarships and paid industrial placements are available from the UK Electronics Skills Foundation and the Institution of Engineering and Technology (including their 'Power Academy' scheme)
Accreditation: The Institution of Engineering and Technology
Our typical entry requirements may be subject to change.
Before you apply, please check our website for specific requirements and full details, including other qualifications we accept.
www.southampton.ac.uk/ecs/entryreq

Find out more

For more details about your course such as module information and course structure, visit
www.southampton.ac.uk/ecs/me
Or to have specific questions answered:
T: +44 (0)23 8059 9699
E: enquiry@southampton.ac.uk

OPTIONAL MODULES

As well as your core modules, you will also be able to choose from an extensive range of optional modules that reflect the specialist areas of your programme, and key technology areas that will be critical in the future.

A range of the subject areas available for you to choose modules from are listed below.

- Agent-Based Computing
- Analogue and Digital Electronics
- Artificial Intelligence
- Bioinspired Robotics
- Biomedical Technology
- Computational Finance
- Computer Vision
- Control Systems
- Critical Systems
- Cryptography
- Cyber Security
- Digital Coding and Transmission
- Distributed Systems
- E-Business Strategy
- Embedded Systems
- Games Design and Development
- Green Electronics
- High Voltage Systems
- Integrated Circuits
- Intelligent Agents
- Intelligent Algorithms
- Image Processing
- Machine Learning
- Medical Technology
- Metamaterials, Nanophotonics, and Plasmonics
- Micro Electromechanical Machines
- Micro and Nano Fabrication
- Nanoelectronics
- Nanotechnology
- Online Social Networks
- Optical Fibre Technologies
- Photonics
- Power Electronics
- Power System Economics
- Power Transmission and Distribution
- Principles of Computer Graphics
- Programming Languages
- Quantum Devices and Technology
- Robotic Systems
- Secure Systems
- Sensors
- Signal Processing
- Silicon Photonics
- Simulation
- System on Chip
- VLSI Design
- Web Science
- Web Technology
- Wireless and Mobile Networks
- Wireless and Optical Communications

You can also choose from options offered elsewhere in the University such as Entrepreneurship, Law, Management, Mathematics and Modern Languages. As part of its Flexible Learning Programme, the University has recently developed a range of interdisciplinary modules that also allow you to study subjects such as American Democracy, Gender and Society, Human Origins, The Living Earth, Philosophy of Science, or Twentieth Century Music.

Some modules are only available to specific programmes. Full details for each programme can be found on our website.

Find out more

For more details about your course such as module information and course structure, visit

www.southampton.ac.uk/ecs/ugcourses

Or to have specific questions answered:

T: +44 (0)23 8059 9699

E: enquiry@southampton.ac.uk

EXPLORE YOUR POTENTIAL

SUMMER TASTER COURSES 2021

26 - 30 July 2021

Find out more:
www.taster.ecs.soton.ac.uk

Our popular Summer Taster Courses are a great way to find out about subjects at the cutting edge of technology and to explore whether this sector is right for you.

If you love maths, technology or science, these one-week residential courses will enable you to apply your skills to either Biomedical Electronic Engineering or Electronic Engineering and Computer Science. Working in groups, you will investigate and design solutions to real-world problems in our state-of-the-art undergraduate labs.

You will have the opportunity to live life as a university student and enjoy a busy programme:

- Try your hand at real experiments in our state-of-the-art laboratories
- Learn about our teaching and research from our globally renowned lecturers
- Get to know our current undergraduates and recent alumni
- Enjoy social events and meet fellow students
- Experience life on campus and in our halls of residence
- Meet leading employers at our Taster Course Careers Fair

> “Very informative and fun, and helped me figure out what I would like to study at university.”
>
> **Siân**
> Taster course attendee

DEGREES WITH INDUSTRIAL EXPERIENCE

Enhance your employability with an Industrial Experience Year, an additional year-long paid placement with one of our recognised partner companies.

A year in industry – sometimes known as a placement, or sandwich year – is a great way to give you a competitive edge among graduate recruiters by showing you can relate your academic skills and knowledge to contemporary industrial practice.

KEY FEATURES

- The year in industry is taken after year two or year three
- You will be provided with advice and guidance by the University to help you secure your placement
- You will continue to have the support of the University during your placement with regular contact between you and the ECS team
- You will benefit from a reduced fee of 20 per centof the standard tuition fee and receive a salary from the company during your placement year
- Your successful placement will be included on your Degree Certificate
- You will remain enrolled as a student during the year, with access to the usual University services, benefits and support
- The Placement Year is assessed by academics and industry experts via an individual reflective report and a presentation to staff and peers

INDUSTRIAL PLACEMENT YEAR

H611 | MEng | Aerospace Electronic Engineering with Industrial Studies Page 25

B901 | MEng | Biomedical Electronic Engineering with Industrial Studies Page 27

1011 | MEng | Computer Science with Industrial Studies Page 13

I130 | MEng | Software Engineering with Industrial Studies Page 17

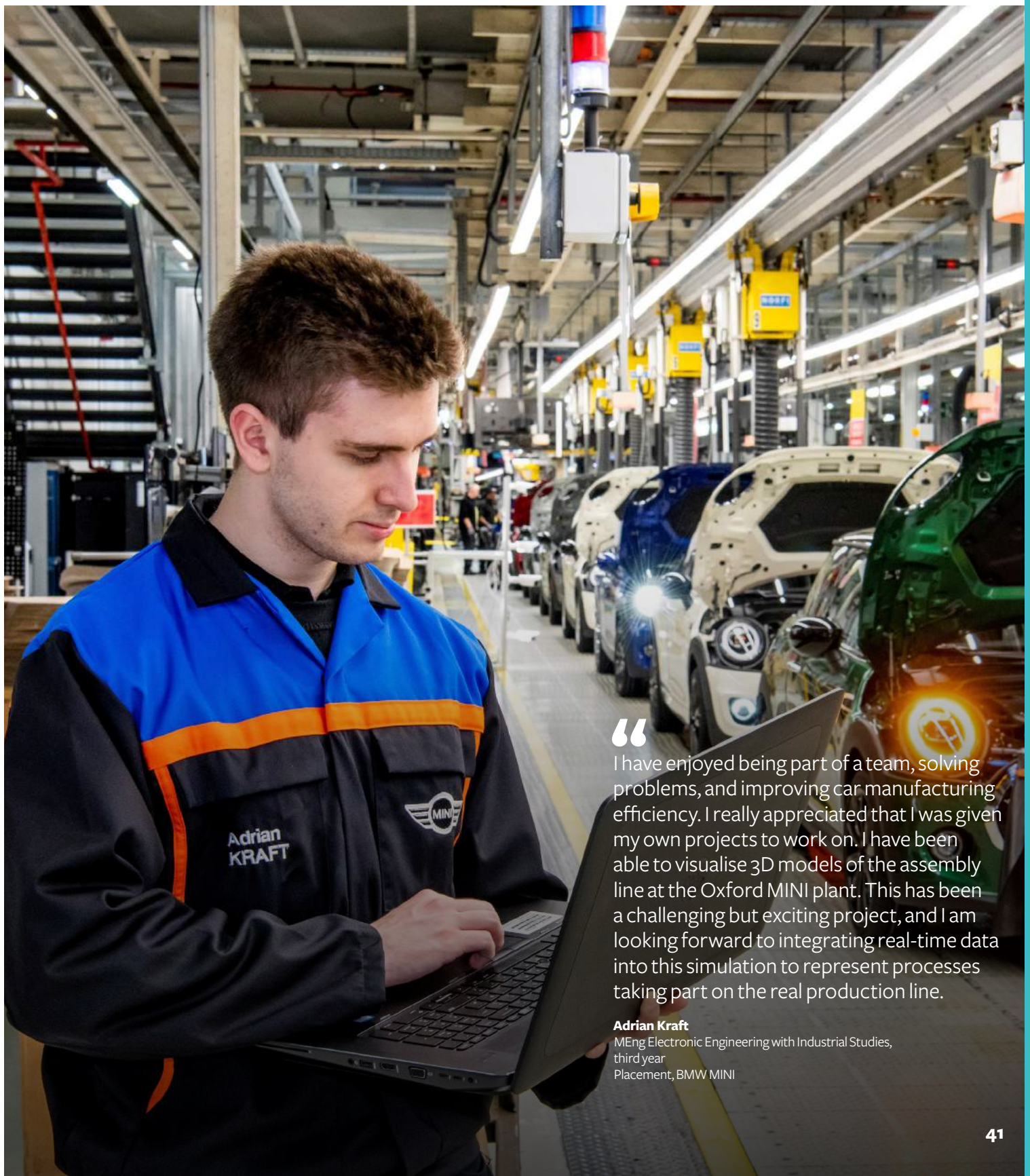
HH62 | MEng | Electrical Engineering with Industrial Studies Page 21

HH60 | MEng | Electrical and Electronic Engineering with Industrial Studies Page 23

HH61 | MEng | Electronic Engineering with Industrial Studies Page 29

H36H | MEng | Mechatronic Engineering with Industrial Studies Page 37

Applications for these programmes should be made through the Universities and Colleges Admissions Service(UCAS)



“I have enjoyed being part of a team, solving problems, and improving car manufacturing efficiency. I really appreciated that I was given my own projects to work on. I have been able to visualise 3D models of the assembly line at the Oxford MINI plant. This has been a challenging but exciting project, and I am looking forward to integrating real-time data into this simulation to represent processes taking part on the real production line.

Adrian Kraft
MEng Electronic Engineering with Industrial Studies, third year
Placement, BMW MINI

FOUNDATION YEAR

The Foundation Year will equip you with the knowledge, skills and attributes needed to successfully meet the challenges of our degree courses. It is aimed at those who are highly motivated but who don't have the traditional qualifications of UK mathematics and physics A Levels.

"I wanted to do engineering, but didn't have maths A level, so I worked with the engineering staff at Southampton to do some pre-testing and then applied to do a Foundation Year. The course gave me all the maths and engineering basics to take me beyond A level standard in a really structured way. It opened up the opportunity to do any of the fantastic range of engineering degrees on offer at Southampton, and that flexibility really appealed to me."

Amal Elhawrani
BEng Electromechanical Engineering, 2015
Graduate Electrical and Power Engineer, London Underground

Why take the Foundation Year?

This one-year full-time course is integrated with a further three-, four- or five-year undergraduate degree, and will build your understanding of mathematics, mechanics, computer programming, electricity and electronics, and engineering principles.

Successful completion of this Foundation Year guarantees progression to one of our 16 subject areas, including many of the courses in this brochure.

Who is it for?

This course may suit you if you:

- are studying A Levels but not in the subjects usually required for entry to your chosen degree
- are a suitably experienced mature student
- are a capable student studying a BTEC National Extended Diploma, or other vocational award, who has not yet studied mathematics and physics to a sufficient depth for entry to our degrees
- have completed 11 or 12 years of education in your home country, rather than the 13 years typically completed in England and Wales

Course structure

You'll study full time through a combination of lectures, workshops, tutorials, and independent study, with three hours of laboratory practical work each week.

Whichever degree you're aiming for you will take seven core modules:

- Electricity and Electronics
- Engineering Principles
- Coursework (including computer applications)
- Mathematics A
- Mathematics B
- Mechanical Science
- Routes to Success

International students with an overall IELTS score of between 5.5 and 6.5 will replace one of the seven modules above with English for Engineers and Scientists.

For information about the Electronics and Computer Science, Physics, Mathematical Sciences and Geophysics degrees that you may progress to, please visit the website.

Key information

Typical offers require the following
A levels: ABB. Pass in the practical science assessment is required where applicable
IB: 32 points
BTEC Level 3 National Extended Diploma: (RQF) DDD
Selection process: UCAS application; additional information may be required, such as a mathematics test and/or interview

Our typical entry requirements may be subject to change. Please refer to the website for language requirements

Degree | UCAS code | Duration

BEng Biomedical Electronic Engineering with Foundation Year
H1H6 | four years

MEng Biomedical Electronic Engineering with Foundation Year
HH16 | five years

BSc Computer Science with Foundation Year
I100 | four years

MEng Computer Science with Foundation Year
I101 | five years

BEng Electrical and Electronic Engineering with Foundation Year
H604 | four years

MEng Electrical and Electronic Engineering with Foundation Year
H605 | five years

BEng Electrical Engineering with Foundation Year
H621 | four years

MEng Electrical Engineering with Foundation Year
H622 | five years

BEng Electronic Engineering with Foundation Year
H612 | four years

MEng Electronic Engineering with Foundation Year
H613 | five years

BEng Software Engineering with Foundation Year
I300 | four years

MEng Software Engineering with Foundation Year
I303 | five years

WORLD-CLASS RESEARCH

"I had so many highlights during my time at Southampton, but one of my proudest accomplishments was graduating in summer 2013 with a first class honours in BEng Electronic Engineering. I loved it so much that I stayed on and did my PhD.

My PhD was funded through the EU's seventh Framework Programme; I was part of an impactful 16-partner consortium consisting of well-known industrial, academic and research organisations across the EU. It was the prestige of Southampton's Nanotechnology and Nanoelectronics Research Group that attracted this project and funding opportunity. Guided by my supervisor, I performed experiments in the cleanroom and achieved novel results, which I presented in international conferences, published in multiple journals and a book chapter. Through networking and working with partners on the project, I also gained a good understanding of public funded projects and consortium roles.

During my PhD, I took on various responsibilities within the department and the university, including lead student ambassador, head guide for the department's recruitment and admissions, workshop leader for public engagement and outreach activities and demonstrator in various modules. In these roles, I developed transferrable skills including leadership, communication, problem-solving and time management.

This all helped me in securing my challenging but rewarding role at TWI where I am responsible for delivering bids for public funding, including programmes such as Innovate UK and European Commission's Horizon 2020. I work closely with researchers and engineers at our research institute to develop the project concept, fit to the appropriate call, build a consortium of UK and European partners, budget and resources planning for multi-million pound projects, liaise with industrial and research partners for the preparation of public funding proposals and manage experienced writers to deliver winning proposals."

"Southampton has one of the premier cleanrooms in Europe, which enabled me to carry out cutting-edge experiments and generate novel results. The University also has world-leading researchers and academics to guide the way for students and an international reputation"

Xiaoqing (Sally) Shi
BEng Electronic Engineering , 2013
PhD in Electronic and Electrical Engineering, 2018
Innovation Project Leader, Technology Innovation Management Team

1st
in the UK for the volume and quality of **Electrical and Electronic Engineering research***

100%
of our **Computer Science** research impact is recognised as world-leading or internationally excellent*

World-leading research facilities include 730m² Cleanroom complex for nanoelectronics and photonics fabrication

Find out more:
www.ecs.soton.ac.uk/research/researchhighlights

*latest REF, 2014

YOUR CAREER

Your future doesn't start when you graduate; it begins the moment you join us at Southampton.

Fast track your ambitions

- Whether you have a plan in mind, or you are unsure about where life may take you, our Careers and Employability Service can guide and support you at every stage.
- Our strong links with business and highly valued reputation in industry mean that we provide numerous opportunities to help you discover and realise your potential.
- Take advantage of work placements, internships and voluntary roles, and attend our careers fairs, one-to-one advice sessions, and employer-led events.
- We offer Career Coaching to first-generation students, and the chance for under-represented students to improve social mobility through our Advance Programme.
- We have everything you need to achieve your entrepreneurial goals: make the most of available funding, attend workshops and summer schools, and access our extensive expertise.

Showcase your potential

- Take advantage of our commercial partnerships with more than 150 ECS-affiliated companies via work placements, internships and volunteering.
- Network with top employers at our annual Engineering and Technology Careers fair, which attracted around 75 leading companies in 2020.
- Keep up to date with the latest news of our ECS Careers Hub, which includes a database of current opportunities.
- Build your entrepreneurial skills by engaging with Future Worlds, our on-campus startup incubator.
- Specialise further with one of our postgraduate courses and gain a more in-depth knowledge of your subject to realise your ambitions.
- Gather evidence of your achievements through our programme of personal development to complement your academic study.

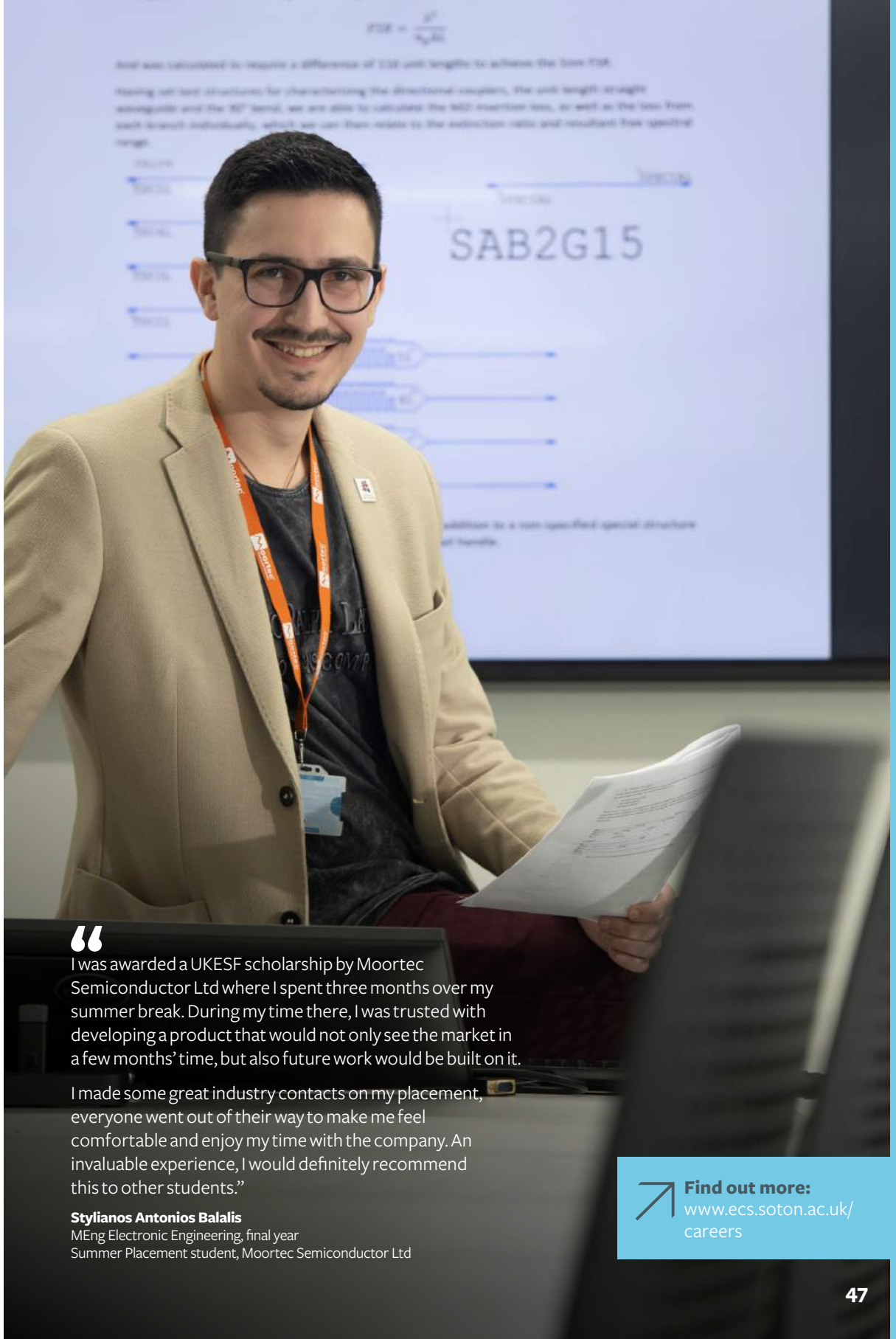
Southampton graduates are successfully employed at high-profile organisations such as:

Accenture
American Express
Apple
Amazon
Arm
BAE Systems
Bloomberg
BBC
BT
Cambridge Consultants
Carnival
China Telecoms
Cisco
Deutsche Bank
Dyson
Facebook
FactSet
Goldman Sachs
Google
IBM
Intel
Jaguar Land Rover
J P Morgan
McLaren
Microsoft
Morgan Stanley
Netcraft
Northrop Grumman
Rolls-Royce
Samsung
Sony
STFC
UKAEA

65
employer-led events
ECS provides a dedicated programme of employer-led events and workshops on campus

75
employers
Our annual Engineering and Technology careers fair offers the opportunity to network with employers

150
partner companies
Through our network of partner companies we source industry-relevant graduate roles, work placements and internships



"I was awarded a UKESF scholarship by Moortec Semiconductor Ltd where I spent three months over my summer break. During my time there, I was trusted with developing a product that would not only see the market in a few months' time, but also future work would be built on it.

I made some great industry contacts on my placement, everyone went out of their way to make me feel comfortable and enjoy my time with the company. An invaluable experience, I would definitely recommend this to other students."

Stylianos Antonios Balalis
MEng Electronic Engineering, final year
Summer Placement student, Moortec Semiconductor Ltd

Find out more:
www.ecs.soton.ac.uk/careers

WORKING TOWARDS YOUR FUTURE

Preparing you for life beyond university goes hand in hand with your studies at Southampton. Through our range of entrepreneurship services, our students have the chance to develop the professional enterprise skills needed to make their mark on the world.

At Southampton we recognise that getting an excellent degree goes way beyond the lecture theatre, it is about hands-on experience too. From business incubators to student societies, enterprise degree modules to careers support, the University of Southampton provides a wealth of opportunities to help launch the entrepreneur within you.

Electronics and Computer Science is home to some of the most talented innovators in the world. From students to professors, some of these aspiring entrepreneurs take their ideas directly to market by creating startups. Future Worlds is a startup accelerator on campus that matches their passion and drive with a determination to help them at every step of their entrepreneurial journey.

One such venture is Aura Vision, founded by Daniel Martinho-Corbishley, an MEng Computer Science graduate who progressed onto a PhD in machine learning, and fellow PhD researcher Jaime Lomeli. The tech startup was launched after the team pitched their idea at an on-campus Dragons' Den style investment competition. With mentoring and incubator support from Future Worlds, they went on to exhibit at the Consumer Electronics Show (CES) in Las Vegas in 2018 and completed a £100,000 seed investment deal to progress their business.

In 2020 Aura Vision was announced as one of the top 50 retail tech start-ups operating globally. The report was published by RWRC – home of Retail Week and World Retail Congress.

Find out more:
www.ecs.soton.ac.uk/entrepreneurship

Built on research undertaken by Jaime Lomeli and Daniel Martinho-Corbishley (left to right) while studying at Southampton, Aura Vision is a cloud-based video analytics platform that harnesses deep learning and artificial intelligence innovations to detect valuable data, such as gender, age and clothing styles from video footage, for uses in high-tech retail and future smart cities.

Find out more:
www.ecs.soton.ac.uk/entrepreneurship

ACCOMMODATION

Welcome to your home from home. Our accommodation is the ideal place to make new friends, experience student life, grow your confidence, and learn to be independent.

All of our halls provide excellent facilities, a guaranteed offer of accommodation* in your first year at the University, and 24-hour support and advice.

Enjoy living in great locations in Southampton, with easy access to our campuses and facilities. Some are within walking distance of Highfield Campus, while others are closer to the vibrant city centre.

You can choose from a range of room types, including en suite or non-en suite, and catered or self-catered.

We also have rooms to suit all needs, including accessible adapted rooms, couple and family accommodation, and spaces specifically for mature undergraduate and postgraduate students.

How to apply

You can apply for your accommodation when applications have opened and you have received your formal offer of study with your student identification number (the eight-digit number given to you by the University).

Find out more and apply on our website.

Some of the many benefits of living in halls include:

- a friendly student community and competitive prices (which include utility bills, internet, contents insurance and, for halls in Southampton, a Unilink bus pass)
- great transport links with our campuses
- on-site facilities including common rooms, launderettes, study and social spaces
- year-round, 24-hour support from our Student Life team
- 24-hour security and CCTV on all sites
- catered and self-catered options

*Our guarantee to you

If you are a registered first-year undergraduate student, new to the University, starting a full-time course, with no dependants, you will be guaranteed an offer of halls accommodation as long as you fulfil the full criteria of the guarantee, which includes applying before 1 August.

To uphold the guarantee, in years of exceptional demand, we may offer accommodation in a twin shared room at the start of the academic year for a short period of time.

You also have the opportunity to apply for continuing years in halls. Although this cannot be guaranteed, we will always offer students accommodation if we have availability.

APPLICATION TIMELINE

FEBRUARY/MARCH 2021
Accommodation application opens and goes live online

JUNE/JULY 2021
Allocation and offer of rooms starts for deferred students and students with unconditional offers, who have applied for accommodation before 31 May 2021

1 AUGUST 2021
New students must have applied for accommodation before this date to be eligible for our accommodation guarantee

MID SEPTEMBER 2021
Allocation of rooms completed

MID AUGUST 2021
After A level results, allocation of rooms to all students begins

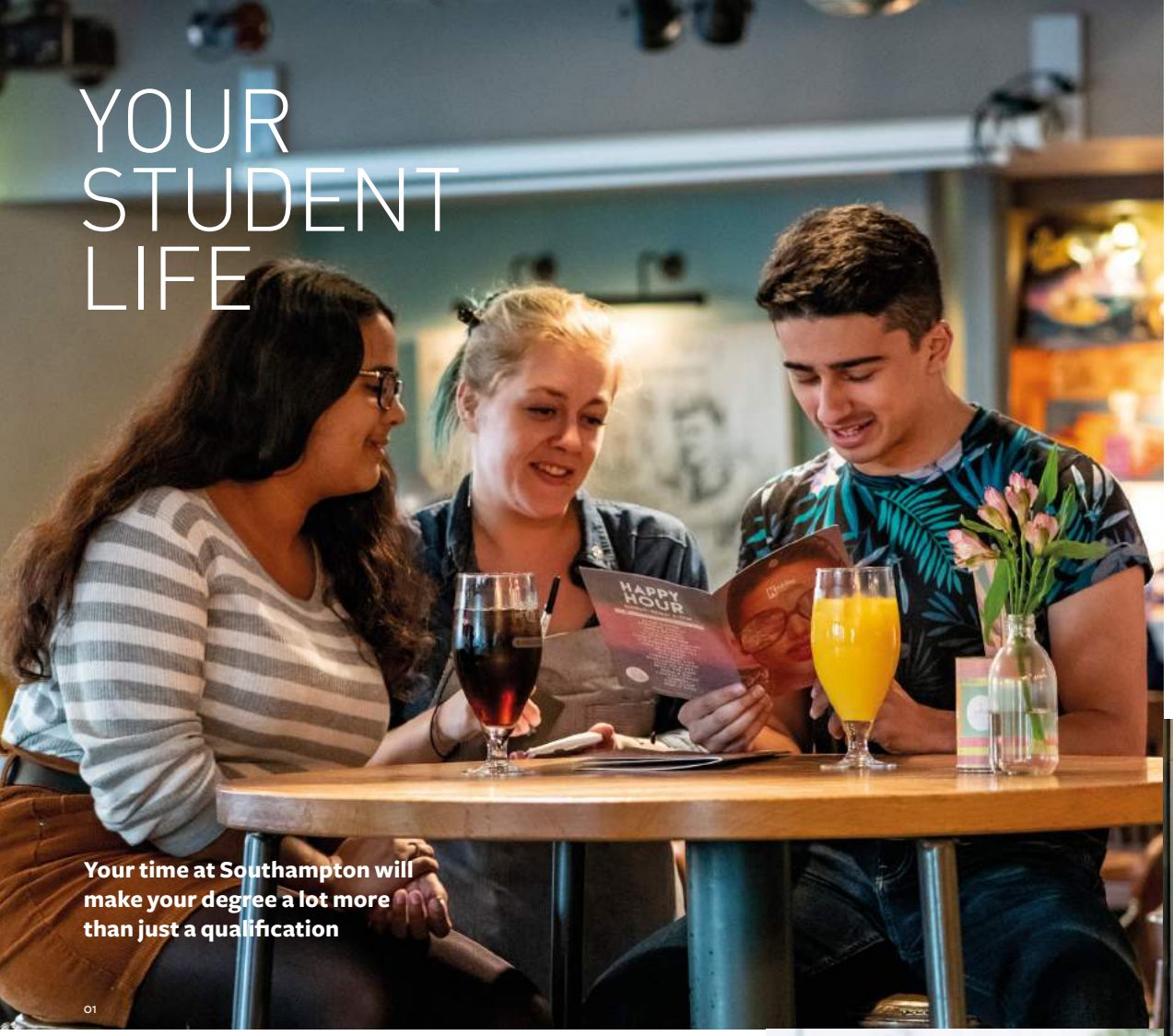
25–26 SEPTEMBER 2021
Arrivals weekend

01 Work or relax in communal spaces.
02 Spacious accommodation at Mayflower Halls.
03 There are plenty of communal areas in halls.
04 Outside space at Glen Eyre.

Watch our video 'Accommodation – your home away from home' at **www.southampton.ac.uk/sb/lifeinhalls**

Find out more:
www.southampton.ac.uk/sb/accommodation

YOUR STUDENT LIFE



Your time at Southampton will make your degree a lot more than just a qualification

01

Campuses

We have five campuses in Southampton, one in Winchester and one in Malaysia. Each has its own distinct personality and community.

Highfield is our main campus; it is home to historic buildings, cutting-edge research and teaching facilities, and the Students' Union, as well as our beautiful green spaces. Highfield is a hub of activity and the perfect place to study, relax, and socialise.

uni_southampton
southampton_engineering
Follow us on Instagram to see more pictures of our campuses

Just a few minutes' walk from Highfield, and on the edge of Southampton Common, Avenue Campus is where you'll find most of our humanities subjects. Avenue houses our state-of-the-art £3m Archaeology building.

Boldrewood Innovation Campus is the base for engineering studies and research. Facilities include a driving simulator, design studios, a 138m towing tank, and our £48m National Infrastructure Laboratory.

One of the UK's leading teaching hospital trusts, University Hospital Southampton NHS Foundation Trust is the base for the study of medicine and healthcare.

02

Our unique waterfront campus, based at the National Oceanography Centre Southampton (NOCS), is one of the world's leading research centres for the study of ocean and Earth science.

Winchester School of Art (WSA) is located 12 miles north of Southampton, in Winchester city centre. With creative ambition at its core, WSA supports students with cutting-edge resources including specialist computer suites, studios, 3D printing, industrial sewing and knitting machines, and more.

Set within the EduCity Iskandar development in Johor, Southampton Malaysia offers split degrees in several undergraduate Engineering programmes. Students benefit from our world-class teaching and course content in a safe and supportive international environment with excellent facilities.

03

Social life

Run for students by students, the Students' Union aims to unlock the potential and enrich the life of every student. Its main purpose is to look after the academic interests of all students, through their representation system, elections and Advice Centre.

- Experience Freshers' – a full programme of activities to help you settle in.
- Join one of more than 300 clubs and societies, and try everything from archery and performing arts to debating and quidditch.
- Volunteer your time with RAG (Raise and Give), a student group that organises fundraising events to benefit local, national and international charities.
- Enjoy food from a Michelin-trained chef at student prices in The Bridge, try delicious vegan and vegetarian food in The Plant Pot, or socialise with friends in The Stag's sports bar.
- Catch a film in the Union's 260-seat cinema, run by student volunteers.
- Dance the night away in the Union's venues for large events, such as gigs and student balls.
- Become a DJ or station manager at Surge Radio and SUSUtv
- Try out journalism with one of the Union's award-winning magazines, *Wessex Scene* or *The Edge*.

04

05

- Get free, independent and confidential advice from the Advice Centre on matters including student finance, housing and academic issues.
- Run for one of the positions in the Students' Union's elections and become the voice of students across the University.

Sport

- Swim in our six-lane, 25-metre pool or use the varied fitness equipment across our nine gyms: six on campus and three more in the city.
- Compete on over 20 grass and synthetic pitches or use our martial arts studio or indoor climbing wall.
- Your subsidised Sport and Wellbeing membership gives you access to a host of facilities and activities across the city, including a dry ski slope, athletics track, and free watersports.
- Join one of the student sport teams or Athletic Union clubs.

01 Socialising at bars and restaurants.
02 Make the most of our sports facilities and opportunities.
03 An evening out at Hollywood Bowl.
04 Students performing at live music events.
05 Westquay shopping centre.

Find out more:
www.southampton.ac.uk/sb/life

OUR INTERNATIONAL COMMUNITY

Join our vibrant and diverse international student community; study, make lifelong friendships, and socialise on the south coast of the UK.

We welcome students from over 130 countries, including around 7,450 EU and international students.

Support and advice

Living and learning in a different country is a big step, so we ensure that our international students have all the support they need.

From ensuring a straightforward entry process, to offering attractive scholarships to eligible applicants, we can help you settle in to your new life in the UK.

Our International Office

Wherever you are in the world, it is easy to discover how to become a part of our community. Our friendly International Office staff regularly travel overseas and within the UK to meet potential students at exhibitions and events.

We are always happy to help and can answer any questions you may have about living and studying here.

Welcome Programme

Every September, we arrange a free Welcome Programme for international and EU students, which is designed to help you settle into life in the UK and at the University before your studies begin. Meet other undergraduate students, attend talks, explore our campuses and the city, and more.

Meet and Greet

We organise a free Meet and Greet service for all new international and EU students in September each year. Our representatives meet you at Heathrow or Gatwick Airport and transport you directly to our campuses.

You can register for the Welcome Programme and Meet and Greet service from July.

English language requirements and support

You will need to demonstrate that you have sufficient knowledge of the English language in order to be able to benefit from all academic activities at the University.

For details about English language requirements for our courses, visit our website.

We also offer a wide range of support programmes to help you prepare for learning in a British academic environment and meet your English language requirements. Our pre-sessional courses help you prepare before you start your course, and there is ongoing academic English language support you can access while you study.

International Student Accommodation Guarantee

If you are an international student, we guarantee you a place in University accommodation, as long as you fulfil the full criteria of the guarantee. This includes applying before 1 August each year, and continuing to be classified as international for fees purposes.

Explore our University from home

Explore our campuses from anywhere in the world using our Virtual Open Day: **www.southampton.ac.uk/sb/virtualopenday**

Visas

Before you join us, you will need to find out about the UK's immigration procedures well in advance of your arrival in the UK.

Our specialist visas team can help advise and support you; you can find out more on our helpful website.

Fees

We offer fixed fees for international students, so you pay the same annual fee for the duration of your course. We also make it easy to pay your fees online, or from your sponsor or funder.

More information on fees and funding can be found on our website.

01 Enjoy the buzz of events on Highfield Campus.
02 Meet with friends between lectures on Highfield Campus.
03 Buy fresh food at the weekly market on Highfield Campus.
04 Have fun at the silent disco at the Freshers' Ball.

Find out more:
www.southampton.ac.uk/sb/international

APPLYING AND FUNDING

How and when to apply

- Applications should be submitted via UCAS (**www.ucas.com**).
- Our institution code is S27 and our code name is SOTON.
- The applications open in early September.
- The deadline for medicine is 15 October.
- The equal consideration date for all other programmes is 15 January. (Please note that this does not apply to international applicants.)
- The deadline for applications is 30 June, although we strongly advise you to apply as early as possible as some courses may no longer have vacancies after the January equal consideration date.

Tuition fees and funding

The University will set fees for 2021/22 subject to any conditions imposed by government. Currently the tuition fee is £9,250*, but we offer a large number of generous fee waivers and bursaries for eligible students. For students from lower income families, these financial packages will be based on household income supplied to us by the Student Loans Company.

If you are funding your own studies, you will need to pay your fees in advance, or you can choose to pay your fees in three instalments on the first day of each term to help spread the cost across the year.

Visit our website for the latest information on tuition fees before you submit your UCAS form for entry in the 2021/22 academic year. Students who have applied for a deferred place in 2020/21 will be eligible for the 2021/22 tuition fees and support.

If you are a UK student starting a higher education course in 2021/22, you can apply for loans to help pay for both fees and living costs. For more details, visit: **www.southampton.ac.uk/sb/fees**

EU student fees

At the time of print the UK government has not confirmed whether students from the EU will be eligible for UK or international fees. Up-to-date information about fees can be found on our website.

Channel Islands/ Isle of Man student fees

Channel Islands and Isle of Man students will be charged the same tuition fee as UK students.

International student fees for 2021/2022

All programmes in Engineering and Physical Sciences: **£22,760 per year**

Foundation Year in Engineering and Physical Sciences, and Environmental and Life Sciences: **£19,500 per year**

International student fixed fees

International students commencing their programme of study in 2021 will pay the same fixed fee for each year of their programme, with the exception of programmes where a combination of clinical and non-clinical fees apply. In these instances, the non-clinical fixed fee will apply for years one and two, and the clinical fixed fee will apply for the remainder of the programme. As with other UK medical courses, these fees may be subject to an additional charge for clinical placement in the NHS, decided by the UK government. Students commencing a Foundation Year will pay less for their Foundation Year than for the rest of their integrated degree.

Scholarships and bursaries

We offer a variety of scholarships and progression awards to the most talented students across our subject areas.

We also offer a range of bursaries designed to help UK undergraduate students in the most financial need.**

Scholarships in ECS

If you identify as female and are interested in studying at ECS, are one of our highest achieving applicants, or have attended an ECS Summer Taster Course, you may be eligible for one of our scholarships up to a value of £3,000.

Find out more at **www.ecs.soton.ac.uk/ scholarships**

EPQ

Our research-led approach to learning is reinforced in the value we place on an Extended Project Qualification.

As the first university to formally recognise the EPQ in its admissions offer scheme, we have always recognised that skills gathered through independent project work and research will enhance and prepare you for your university experience.

Equivalent to half an A level, an EPQ requires students to complete a self-directed and self-motivated project on a topic of their choice.

On most of our courses applicants offering an EPQ will be made two offers – our typical offer based on three A levels, and an alternative where, in exchange for an A or A* in the EPQ, we will reduce the A level requirements by one grade. For example, a typical offer of AAA would be made alongside an offer of AAB, plus an A in the EPQ.

We also provide free online support on developing EPQ research projects.

Find out more:
www.southampton.ac.uk/sb/fees

*Annual increases, which are also subject to UK Parliament approval, will apply to institutions demonstrating high-quality teaching and are likely to be in line with inflation. The measure of inflation to be used is Retail Price Index (RPIX) (excluding mortgage interest payments). It is anticipated that increases will apply at the commencement of the second and subsequent years of the degree programme.

**This statement is correct at the time of publication, but is subject to change

HOW TO FIND US

Our city is well connected, making it easy to explore your new home. We are proud to be accessible from wherever you are in the world; you are never too far from Southampton.

University of Southampton
University Road, Southampton SO17 1BJ, UK
T: +44 (0)23 8059 5000
www.southampton.ac.uk

Find out more:
www.southampton.ac.uk/sb/campuses

TERMS AND CONDITIONS

The University's Charter, statutes, regulations and policies are set out in the University Calendar and can be accessed online at www.calendar.soton.ac.uk

Terms of use

This prospectus does not constitute an offer or invitation by the University of Southampton to study at Southampton. It provides an overview of the University and life at Southampton, along with information about all the undergraduate programmes available at the time of publication. This is provided for information purposes only. Applications made to the University should be made based on the latest programme information made available by the University. Relevant weblinks are shown throughout. Please also consult the programme information online for further details or for any changes that have appeared since first publication of the prospectus.

The information contained in the prospectus, welcome guides or on our websites is subject to change and may be updated by the University from time to time to reflect intellectual advances in the subject, changing requirements of professional bodies, and changes in academic staff members' interests and expertise. Changes may also occur as a result of monitoring and review by the University, external agencies or regulators.

Programme Validation

Validation is the process by which the University approves its programmes of study. Any taught undergraduate and postgraduate programme leading to a University of Southampton award, including research degrees with a taught component (eg Engineering Doctorate) are required to go through Programme Validation. The full validation process can be found in the University's Quality Handbook:

1. Change or discontinuance of programmes

The University of Southampton will use all reasonable efforts to deliver advertised programmes and other services and facilities in accordance with the descriptions set out in the prospectuses, student handbooks, welcome guides and website. It will provide students with the tuition and learning support and other services and facilities so described with reasonable care and skill.

We undertake a continuous review of our programmes, services and facilities to ensure quality enhancement. We are largely funded through public and charitable means and are required to manage these funds in an efficient and cost-effective way for the benefit of the whole of the University community. We therefore reserve the right, where necessary, to:

- alter the timetable, location, number of classes, content or method of delivery of programmes of study and/or examination processes, provided such alterations are reasonable
- make reasonable variations to the content and syllabus of programmes of study (including in relation to placements)
- suspend or discontinue programmes of study (for example, because a key member of staff is unwell or leaves the University)
- make changes to our statutes, ordinances, regulations, policies and procedures which we reasonably consider necessary (for example, in the light of changes in the law or the requirements of the University's regulators). Such changes if significant will normally come into force at the beginning of the following academic year or, if fundamental to the programme, will normally come into force with effect from the next cohort of students
- close programmes of study or to combine or merge them with others (for example, because too few students apply to join the programme for it to be viable)

However, any revision will be balanced against the requirement that students should receive the educational service expected. The University's procedures for dealing with programme changes and closures can be found in our Quality Handbook at

If the University closes, discontinues or combines a programme of study or otherwise changes a programme of study significantly (the 'Change'), the University will inform applicants (or students where relevant) affected by the Change at the earliest possible opportunity.

a. If the Change comes into force **before** the University has made an **offer** of a place or before an applicant has accepted an offer of a place, an applicant will be entitled to withdraw his or her application, without any liability to the University, by informing the University in writing within a reasonable time of being notified of the Change.

b. If the Change comes into force **after** an **offer** has been accepted but prior to the student **enrolling**, the student may either:

i) withdraw from the University and be given an appropriate refund of tuition fees and deposits, or

ii) transfer to another available programme (if any) as may be offered by the University for which the student is qualified

If in these circumstances the student wishes to withdraw from the University and to apply for a programme at a different university, the University shall use its reasonable endeavours to assist the student.

c. If the Change comes into force **after** a student has **enrolled**, the University will use reasonable endeavours to teach the programme out but cannot guarantee to do so. If the University cannot teach out a programme of study, it will use its reasonable endeavours to facilitate the transfer of a student to an equivalent programme for which the student is qualified and which has places available within the University or at a different university. Any revision will be balanced against the requirement that students should receive the educational service expected.

All changes will be managed in line with our Student Protection Plan.

2. Changes to services or facilities

The University will make available to students such learning support and other services and facilities as it considers appropriate, but may vary what it provides from time to time (for example, the University may consider it desirable to change the way it provides library or IT support).

3. Financial or other losses

The University will not be held liable for any direct or indirect financial or other losses or damage arising from such closures, discontinuations, changes to or mergers of any programme of study, service or facility.

Upon acceptance by an applicant of an offer of a place at the University, the relationship between the applicant and the University becomes contractual. When the contract is formed between the student and the University it will last for the relevant academic year only unless the student withdraws from the programme or the programme is terminated.

Please note: the right of a student to withdraw from a programme of study under the provisions set out in paragraph 1b. above following a Change are in addition to any statutory rights of cancellation that may exist under the Consumer Contracts (Information, Cancellation and Additional Charges) Regulations 2013. In entering into that contract, the terms of the contract will not be enforceable by any person not a party to that contract under the Contracts (Rights of Third Parties) Act 1999.

Student Protection Plan

As a registered provider of higher education with the Office for Students, we have a Student Protection Plan (SPP) in place, which sets out what students can expect to happen should a course or campus close. The purpose of this plan is to ensure that students can continue and complete their studies, or can be compensated if this is not possible.
Full details of the plan can be found at

Force majeure

The University will not be held liable for any loss, damage or expense resulting from any delay, variation or failure in the provision of programmes of study, services or facilities arising from circumstances beyond the University's reasonable control, including (but not limited to) war or threat of war, riot, civil strife, terrorist activity, industrial dispute, natural or nuclear disaster, adverse weather conditions, interruption in power supplies or other services for any reason, fire, boycott and telecommunications failure. In the event that such circumstances beyond the reasonable control of the University arise, it will use all reasonable endeavours to minimise disruption as far as it is practical to do so provided that such endeavours do not undermine the University's Quality Assurance requirements.

Admissions Policy and complaints

The University will assess applications in line with its then current Admissions Policy. This policy is reviewed at least annually. The Admissions Policy, current at the time of publication, is published online and is available at **www.calendar.soton.ac.uk/sectionIV/admissions.html**

Before you apply please see subject websites listed for subject-specific terms and conditions.

Applicants may raise complaints related to admissions under the University's Regulations Governing Complaints from Applicants, which can be found at **www.calendar.soton.ac.uk/sectionIV/admissions.html**

Further information about or clarification of these procedures is available from the Admissions team, Student and Academic Administration, University of Southampton, Southampton SO17 1BJ; enquiry@southampton.ac.uk

Data protection

During the application procedure, the University will be provided with personal information relating to the applicant. An applicant's personal data will be held and processed by the University in accordance with the requirements of the Data Protection Act 2018. Please also see our Privacy Notice for Applicants at

© University of Southampton 2020
A copy of this prospectus and the University's current information for students with disabilities and specific learning difficulties can be made available, on request, in alternative formats, such as electronic, large print, Braille or audio, and, in some cases, other languages.

Published and produced by Communications and Marketing February 2020

Photographs courtesy of Jon Banfield, and staff and students of the University

Design and artwork by WAXsii