Systems and control engineering is an interdisciplinary approach to solving today’s complex technical challenges. It not only provides key enabling technology for aerospace, robotics, autonomous vehicles, manufacturing, and renewable energy, but also provides a systematic way to solve biological, medical, social, and financial systems problems.

A systems and control engineer’s role is to design and develop highly sophisticated systems that integrate all key elements needed to achieve optimum performance, including electronics, software, sensors and other hardware. With unlimited imagination a systems and control engineer can revolutionise the way we interact with each other and perform everyday tasks.

Why study with us?

We are one of the most successful systems and control departments in the world and our courses are respected by employers everywhere. Our degrees are research led and strongly informed by our world leading research and through input from our many industrial partners. You will be taught by world leaders in their chosen fields so you will gain the knowledge, understanding and skills you need to make a real difference in society, now and in the future.

Our graduates are in high demand and earn some of the highest salaries. They work in senior positions in many different sectors and have gone on to make a significant impact in their chosen fields.

A unique place to study

We are at the University of Sheffield’s Centre for Control and Health Technology Centre and have research contracts with major institutions like the European Space Agency. These connections mean our teaching is based on the latest thinking.

Our facilities include two new undergraduate teaching laboratories, Natural Robotics control of Power Systems lab.

What is your favourite module?

I really enjoy the Systems Modelling and Simulation module. It offers a broad knowledge on the principles and behaviour of systems. Learning how systems are actually being applied in the modern world really excites me.

What is the best bit about being a University of Sheffield student?

Being a student at the University of Sheffield has been an incredible experience so far. The facilities provided have been just so excellent – the 24-hour Information Commons library, the vibrant 24-hour Information Commons library, the vibrant

Izha Haziqah Rosli

BEng Systems & Control Engineering

Why did you choose ACSE?

I chose ACSE as no other courses that focused on control in a general sense and intelligent oil drilling platforms. This complex interaction and integration are needed to produce products such as unmanned aerial vehicles, search and rescue robots, advanced manufacturing, and intelligent oil drilling platforms.

Foundation year

If you do not have the usual scientific or mathematical background for an engineering degree, a foundation year is for you. After successfully completing the foundation year, which was modelled on Sheffield’s degree in physics, you can proceed to either the BEng or MEng Systems and Control Engineering degree.

Spend a year in industry

You can combine most of our courses with a year in Industry. Working in an engineering or technology company will put your academic studies into context, improve your skills, and enhance your employment prospects when you graduate.

“I would recommend a placement year to anyone who is interested in experiencing the industrial world. It’s a great chance to develop your personal skills, meet people in industry, make good future connections and get a feel for where you would fit best.”

Zlatina Lazarova

BEng Systems & Control Engineering with Year in Industry

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I chose ACSE as no other university I looked at offered courses that focused on control in a general sense without attaching it to specific applications. The chance to gain hands-on experience working with advanced hardware and software systems was also a big draw.

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Adam Hartwell

MEng Computer Systems Engineering

Why did you choose ACSE?

Palmer Luckey: the founder of Oculus VR. An engineer at USC’s Institute of Game Innovation and Technology who is interested in the current state and future of virtual reality, widely thought to be too difficult to do convincingly, and said you know what I think is the most inspiring person in your field? That ability to take emerging technology and combine it all together to achieve an idea especially in the face of adversity is truly inspiring.

What is your favourite module?

AC5331 Rapid Prototyping Control

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Computer Systems Engineering

BEng H361, YiI 2A47 | MEng G500, YiI 8M74

Computing is at the heart of the latest developments and discoveries in engineering, healthcare, bioengineering, and bioengineering. We are one of the most successful systems and control engineering courses that focused on control in a general sense without attaching it to specific applications. The chance to gain hands-on experience working with advanced hardware and software systems was also a big draw.

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Character Module

Character Module: Mechatronics and Machine Vision

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What is your favourite module?

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Excellent employment prospects

99%* of the class of 2013 are employed or in further study. The average annual salary after graduation is £28,500*.

Entry Requirements

<table>
<thead>
<tr>
<th>Qualification</th>
<th>BEng</th>
<th>MEng</th>
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<tbody>
<tr>
<td>GCE/VCE A Levels</td>
<td>AAB</td>
<td>AAA</td>
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<td>BTEC L3 Diploma</td>
<td>DDD</td>
<td>DDD</td>
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<tr>
<td>International Baccalaureate</td>
<td>35 points</td>
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<td>Irish Leaving Certificate</td>
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*Entry requirements include A-Levels should include Maths and Physics (or a similar subject)

A Levels should include Maths and Physics (or a similar subject)

English Language qualifications:

International students need overall IELTS grade of 6.0 with at least 5.5 in each component, or an equivalent English Language qualification.

What next?

Visit us at one of our open days which run throughout the year or arrange an informal visit. Contact us and we will arrange a date that is convenient for you.

For more information about courses and modules, see our online prospectus: www.sheffield.ac.uk/undergraduate

Contact:

Department of Automatic Control and Systems Engineering

W: sheffield.ac.uk/acse
T: +44 (0)114 222 5647
E: adacse@sheffield.ac.uk

Graduate employers include:

JAGUAR
Rolls-Royce
THALES
CATERPILLAR®
SCX
british sugar
AIRBUS
BAE SYSTEMS
Network Rail
RAILWAY RAIL
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“The skills and the mindset I learned at ACSE have served me incredibly well since graduation. A true Systems Engineering degree is rare and there are few Systems Engineers in industry that have been able to benefit from the teachings of this Department. I feel I have a huge competitive advantage in modern industry because of ACSE.”

Bobby Mason, Graduate Systems Engineer in the Aerospace Industry

Our graduates help shape the world we live in.

99%* Of the class of 2013 are employed or in further study.

Average annual salary after graduation is £28,500*.

We would like to thank all our employers who support the students’ employability and graduate outcomes. Our thanks go to JCB, Ashtead, Siemens, Sky, BAE Systems, Delphi, Deloitte, Milliken, Bentley Systems, Ove Arup, Grangegorman Development Partnership, Grant Thornton, Jacobs, and Wärtsilä.

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