

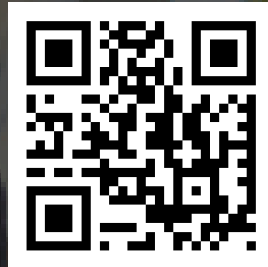
# Engineering and Built Environment

School and College  
Outreach Offer 25/26





Visit our outreach  
website for more  
information



[shu.ac.uk/sclo](https://shu.ac.uk/sclo)

# CONTENTS

- 4 Explore Our Outreach Opportunities**
- 5 Built Environment**
- 7 Engineering**
- 11 Advice and Transition Outreach Activities**
- 12 Teacher and Adviser Opportunities**
- 13 Access Hallam**



[sclo@shu.ac.uk](mailto:sclo@shu.ac.uk)



[@SHUOutreach](https://www.instagram.com/SHUOutreach)



Sheffield Hallam  
University Outreach Team







# Explore Our Outreach Opportunities

**Discover the outreach activities we provide, tailored to support students in making informed decisions about university-level study.**

We deliver interactive, hands-on masterclasses for KS5 students from across the Sheffield Business School portfolio, aimed at deepening students' knowledge and understanding while offering a glimpse into academic pathways and university experiences. From a course talk covering the opportunities within the Sheffield Business School, to interactive masterclasses, taster days, or one-off sessions that can be arranged both on and off campus. Chat to us about your requirements, as we can often be flexible with dates and times. If you're working with KS3 or KS4 students, please get in touch to discuss the opportunities we can offer.

In addition, we often run bespoke events with external companies/charities, as well as themed days aligned to national events. Interested in finding out more? Sign up to our monthly mailing list and visit our events webpage by scanning the QR code.

**To book, enquire or sign up to our mailing list, contact the team at [sclo@shu.ac.uk](mailto:sclo@shu.ac.uk)**



## Engineering Courses:

- Aerospace
- Automotive
- Chemical
- Electrical & Electronic
- Mechanical
- Mechatronic & Robotic

## Built Environment Courses:

- Building Surveying
- Construction Project Management
- Quantity Surveying



# Built Environment

Our Built Environment courses prepare students for careers in shaping the human made surroundings that provide the setting for living. Students learn from industry experts and work on real-world projects, with opportunities for placements to gain hands-on experience. Alongside earning an accredited qualification, they will develop practical, transferable skills that enhance their employability and career prospects.

Transferable skills that you could develop means you can work on various projects from concept and design, through to construction and in-use.

# Construction Project Management

Our Construction Project Management course equips students to lead and manage projects in a digital, sustainable, and global era. Students gain hands-on experience with the latest industry technology and techniques. Accredited by RICS and CIOB, this course prepares students for Chartered status and a successful career in shaping the built environment.

## **Future career pathways include:**

- Project Management
- Site Management and Logistics
- Property Development

# Building Surveying

Our Building Surveying course develops skills to refurbish and create buildings with an environmental focus. Students gain practical knowledge in construction, conservation, project management, and digital technologies, while exploring sustainability and environmental impact. Accredited by RICS and CIOB, it prepares graduates for a dynamic career in building surveying.

## **Future Career Pathways Include:**

- Building Control
- Heritage & Conservation
- Sustainability Advisor

# Quantity Surveying

Our Quantity Surveying course prepares students to manage and control construction costs to the highest standard. With a focus on practical experience and industry connections, this course is highly regarded by employers. Accredited by RICS, CIOB, CICES and other international bodies, it offers excellent career prospects in quantity surveying and commercial management.


## **Future career pathways include:**

- Cost/Commercial Manager
- Expert Witness
- Contracts Administrator



# Example Taster Day: Built Environment

Mix and match to create a taster day bespoke to your student's needs.

Timings	Session
<b>09:45</b>  <b>14:30</b>	Arrival & Welcome
	Introduction to the Built Environment
	Design & Construct Your Ideal Student Accommodation Session
	Lunch
	'Will Your Building Stand Up?' Testing & Judging
	Feedback & Close

## Find Out More

This is an example programme for an on campus taster day with Built Environment.

This taster day will give students an opportunity to undertake a wide range of different roles within the built environment, to help inform their future career choices. We can include an optional campus tour within the visit.

We can also offer short session activities including digital construction and surveying. If you cannot make it to us, we can come to you with our activities!

**Please get in touch to discuss your requirements.**

# Aerospace Engineering

Our Aerospace Engineering course prepares students to become the next generation of engineers, equipping them with the scientific knowledge and practical skills needed to tackle challenges in air and space transportation. This course meets the academic benchmark requirements for registration as an Incorporated Engineer (IEng), providing excellent career prospects in the aerospace sector.

## **Future career pathways include:**

- Aerodynamics
- Flight Dynamics
- Manufacturing

# Automotive Engineering

Our Automotive Engineering course prepares students to develop sustainable vehicle technologies and create future-focused solutions for the industry. With a strong emphasis on practical experience and innovation, this course meets the academic benchmark for registration as an Incorporated Engineer (IEng), offering excellent career prospects in automotive engineering and beyond.

## **Future career pathways include:**

- Research and Development
- Design including CAD
- Manufacturing

# Chemical Engineering

Our Chemical Engineering course combines technical knowledge with hands-on projects, preparing students for careers in green and sustainable industries. Through lab work and site visits, they learn how engineers design systems with real-world and societal impact. The course is accredited by the Institution of Chemical Engineers (IChemE).

## **Future career pathways include:**

- Project Engineer
- Sustainability Consultancy
- Process Engineer

# Electrical Engineering

Our Electrical Engineering course equips students with the skills and knowledge to excel in electrical and electronic engineering, powering the smart world of tomorrow. With a focus on practical experience and innovation, this course is accredited by the Institution of Engineering and Technology (IET), offering excellent career prospects and opportunities for further academic study.

## **Future career pathways include:**

- Supply and distribution
- Design, development and test



# Mechatronics and Robotics

Our Mechatronics and Robotics course equips students with the technical knowledge and professional skills to design and integrate advanced systems across mechanical, electrical, and software components. With a focus on solving real-world industrial challenges, this course will develop and build students professional engineering skills to help them progress towards recognition as an accredited engineer with the relevant professional engineering institution.

Future career pathways include:

- Automation and Control
- Robotics

# Mechanical Engineering

Our Mechanical Engineering course equips students with state-of-the-art scientific knowledge, practical experience, and professional skills to tackle future challenges in the industry. With a focus on mechanical science, design, systems, and sustainable engineering practices, this course - accredited by the Institution of Mechanical Engineers (IMechE) - prepares students for diverse and rewarding engineering roles, enabling them to create innovative solutions across various sectors.

Future career pathways include:

- Mechanical Design
- Manufacturing and Production










# Example Taster Day: Engineering

Mix and match to create a taster day bespoke to your student's needs.

Timings	Session
<b>09:30</b>  <b>14:15</b>	Arrival & Welcome
	Group Session A
	Group Session B
	Group Session C
	Campus Or Facilities Tour
	Lunch
	Full Group Session
	Feedback & Close

## Find Out More

This is an example programme for an on campus taster day with Engineering for a maximum of 60. We can also accommodate smaller visit groups and half-days.

The group sessions can include Aircraft Performance, Hydrogen Production, Coding a Self-driving Car, and many more. All students will have the opportunity to do each activity throughout the day.

If you cannot make it to us, we can come to you with our interactive taster activities!

**Please get in touch to discuss your requirements.**

# Advice & Transition Outreach Activities

Supplement your subject specific sessions with general HE activities.

## Activities

For Y12, Y13 and mature students, can be delivered on or off campus.

### Beyond the Classroom:

Your journey ahead explore higher education and plan your next steps.

### Building your Brand:

Build skills for strong university and degree apprenticeship applications.

### Own Your Budget:

A session on student finance, university costs and budgeting.

### Student Life in Sheffield:

An insight into life at Hallam and student opportunities in Sheffield.





# Teacher & Adviser Opportunities

Become part of our community and schedule a meeting to discover how you and your students can engage with our offer.

## Learn With Us!

We offer Continuing Professional Development (CPD) sessions for teachers and advisors, designed to support your growth and keep your knowledge up to date.

Can't see what you're looking for, or would like support in another way?  
Just get in touch- [sclo@shu.ac.uk](mailto:sclo@shu.ac.uk)

## We Can Help You Learn:

- ✓ Advanced CAD and CFD
- ✓ Digital twins in robotics
- ✓ Machine Learning
- ✓ Embedding sustainability into teaching



# Access Hallam

**Helping students progress with confidence.**

**Our Access team is here to help your students feel excited about the opportunities that Sheffield Hallam can offer them. We'll show them what's possible and what happens next. Because we want to make sure that nothing holds them back from succeeding.**

All our support is delivered through a range of programmes. Based on evidence and input from our students and their supporters, we design the programmes to address the diverse challenges people can face and give the support that individuals need.

## Hallam Progress

Hallam Progress provides support for applicants whose personal circumstances might mean that there are barriers to going to university. By joining Hallam Progress, students will have help to guide them through the application process and get them ready to start learning at university. More information can be found at [shu.ac.uk/progress](https://shu.ac.uk/progress)

## Black British Pathway Programme

This specialist programme has been designed by current Black British students studying at Hallam alongside Access team staff to ensure that future students and applicants feel welcome here and have the best possible start. With bespoke visits and tailored support we aim for participants to feel part of the community before even enrolling.

**For more information, contact us at [access@shu.ac.uk](mailto:access@shu.ac.uk) or 0114 225 4777.**







[sclo@shu.ac.uk](mailto:sclo@shu.ac.uk)



[@SHUOutreach](https://www.instagram.com/SHUOutreach)



Sheffield Hallam  
University Outreach Team