THE UNIVERSITY of EDINBURGH

Welcome to The School of Engineering

EDINBURGH
Extraordinary futures await

Why Edinburgh?

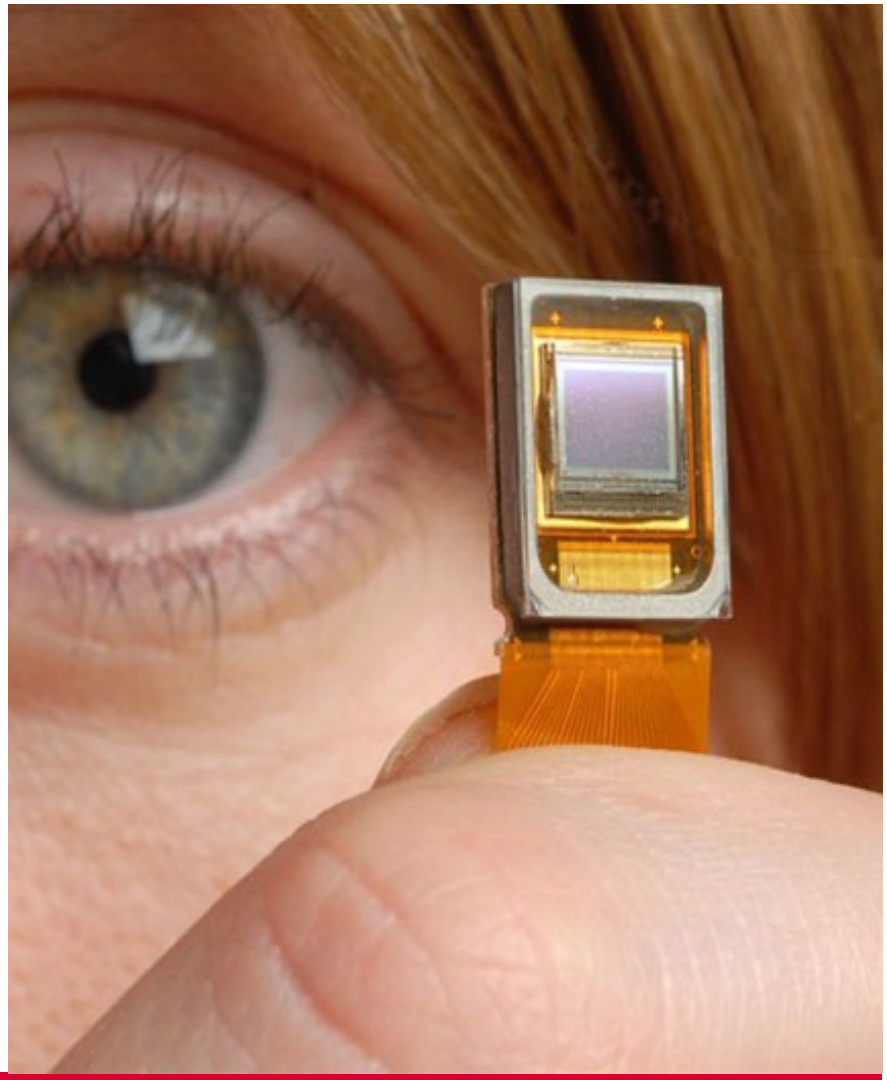
You need to choose the University that suits YOU!

We are here today to help you make that choice

- A top-ranked University with an established history
- World-leading research-led teaching
- Active industry links and opportunities to build employability
- Broad range of optional courses
- Enthusiastic faculty
- Edinburgh is a great place to live!
- 6th best student city in Europe, 13th in world (QS Best Student Cities 2025)

Innovation

- **Joint #1 in world** for Industry, Innovation & Infrastructure
  (Times Higher Education Impact Rankings 2024)
- Student-led innovation opportunities & support:
  - Student Enterprise Hub
  - Edinburgh Entrepreneurs
  - Higgs Centre for Innovation (incubation)



Sustainability

- **#2 in UK, #7 in world**
  (QS World University Rankings: Sustainability 2025)
- Recognises our leadership in creating a more sustainable world through research, teaching, partnerships and operations
- Our degree programmes align with many of the UN's Sustainable Development Goals

Our School

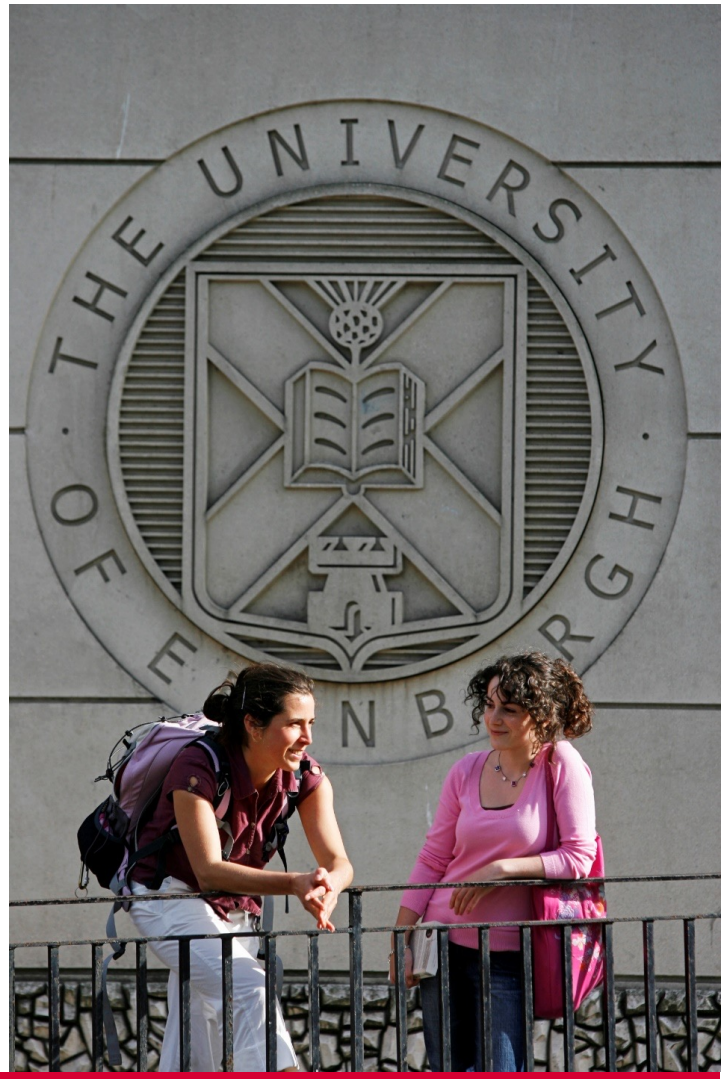
- Engineering is largest of 7 schools in College of Science & Engineering
- 1900 undergraduates, 600 postgraduates (200 MSc, 400 PhD)
- 170 academic staff
- 130 post-doctoral researchers
- 160 professional & technical staff
- Organised into 4 teaching disciplines & 7 research institutes
- Academics' workload is split roughly equally between teaching and research

Teaching disciplines

Teaching is separated into 4 subject-related disciplines:

- **Chemical Engineering**
- **Civil and Environmental Engineering**
- **Electronics and Electrical Engineering**
- **Mechanical Engineering**

Academics generally teach in a single discipline, but some courses (e.g. Mathematics) are shared between disciplines.

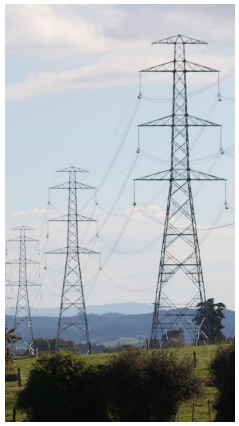
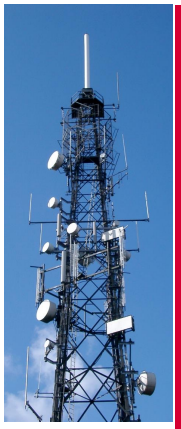
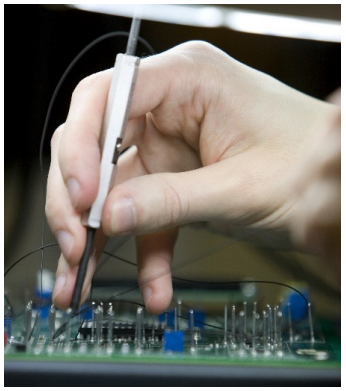
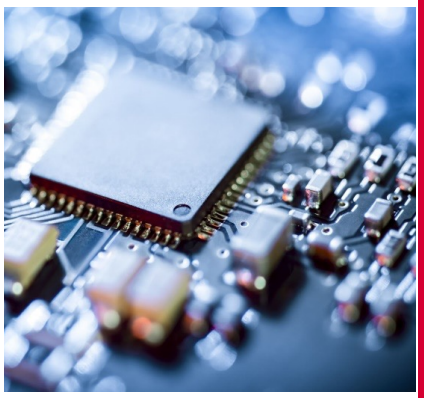
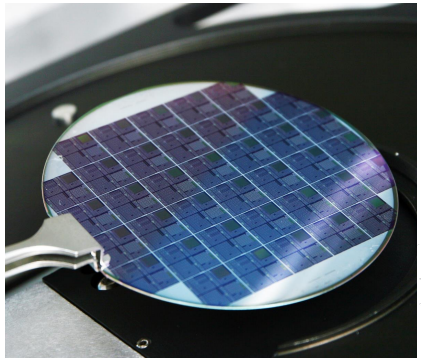
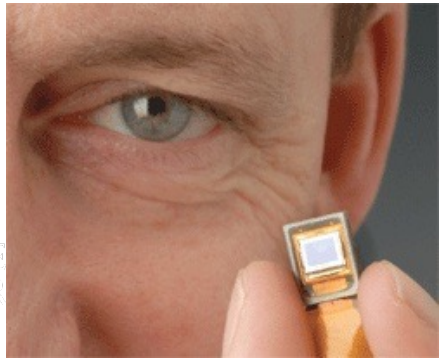
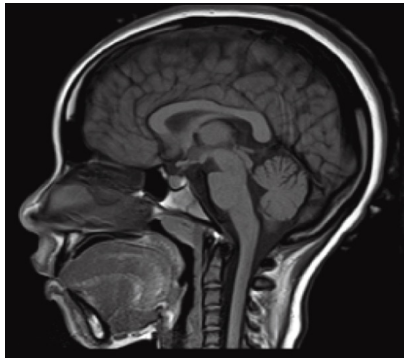
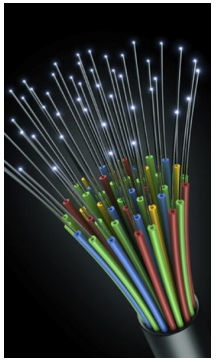


Why study EEE at Edinburgh?

- Our flexible curriculum balances:
  - Theoretical and practical learning
  - Academic and industrial engagement
  - Technical knowledge and engineering skills
- Strong links to an active network of EEE companies located here in Edinburgh
- Ranked 1st in Scotland and 6th in UK for Engineering (QS World University Rankings by Subject 2024)
- 96% of our Engineering graduates went on to employment or further study (Graduate Outcome survey 2020/21, based on 49% response rate)

EEE Teaching Themes:

- Digital Electronics
- Analogue Electronics
- Electrical Power
- Microelectronics
- Signals & Communications
- Electromagnetics & Photonics
- Bioelectronics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EDINBURGH
xtraordinary futures await

Our degrees

BEng (4 years) & **MEng** (5 years) in:

- Electronics & Electrical Engineering (EEE)
- Electrical & Mechanical Engineering (E&M)
- Electronics & Computer Science (E&CS)

- BEng & MEng common for first 3 years
- MEng becoming standard for professional engineering roles
- All fully accredited by IET (and IMechE)
- Chartered Engineer status:
  - (CEng) = MEng degree + (typically) 3-5 years industrial experience
  - (CEng) = BEng degree + MSc + (typically) 3-5 years industrial experience

The Institution of Engineering and Technology

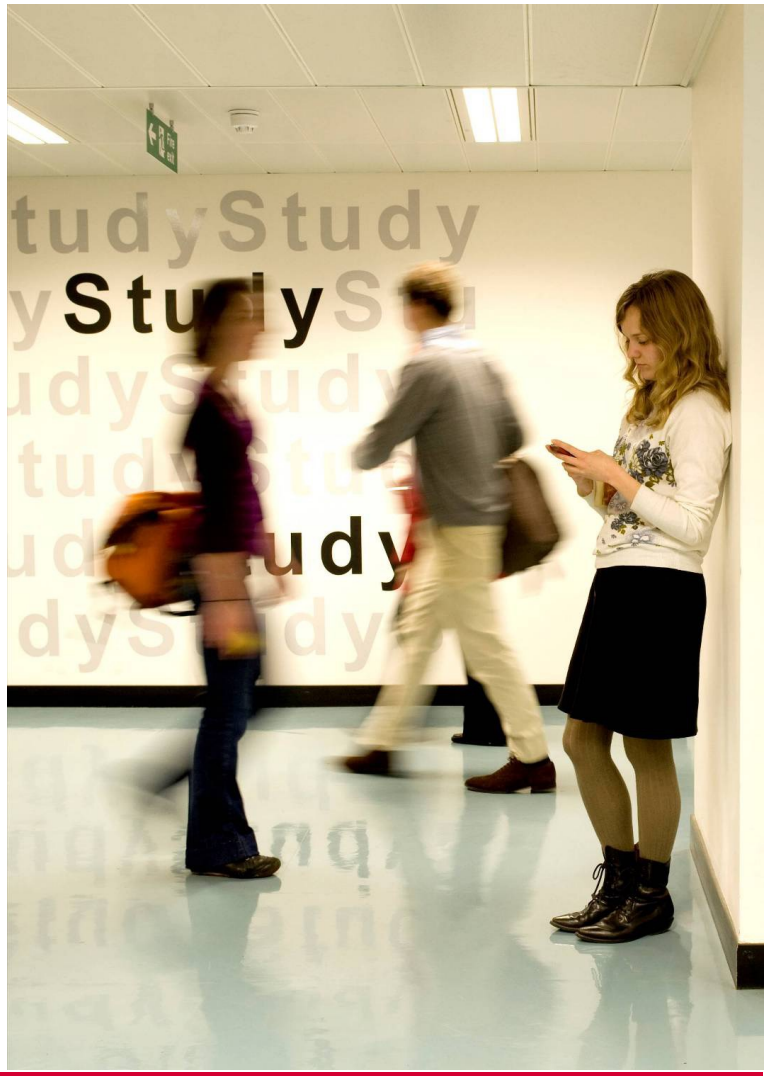
Teaching and assessment

Teaching methods

- Lectures
- Tutorials
- Laboratories
- Group projects
- Individual assignments
- Self-study
- Peer-mentoring
- Discussion boards/rooms
- Digital toolboxes
- Industrial placement

Assessment

- Coursework
- Examinations
- Projects & Presentations (group & individual)



Research Institutes

- Academics also belong to a research institute
- In REF 2021, we ranked **1st in Scotland, 3rd in the UK** for the quality and breadth of our research
  (Times Higher Education rankings)
  (Joint submission of the ERPE with HWU)
- Our research informs our teaching
  Lecturers are at the forefront of their respective fields
- Students have opportunities to participate in our research during their final-year project, and through summer internships

7 research institutes:

- **Bioengineering (IBioE)**
- **Imaging, Data & Communications (IDCoM)**
- **Energy Systems (IES)**
- **Integrated Micro & Nano Systems (IMNS)**
- **Infrastructure & Environment (IIE)**
- **Materials & Processes (IMP)**
- **Multiscale Thermofluids (IMT)**

Some terminology!

- **Programme** – the degree you are aiming for
  e.g. MEng in Chemical Engineering
- **Courses** – individual subjects with their own lectures/labs and assessment, that combine to make up a year of a programme
- **Point of entry** – the year of the programme you are joining (generally 1, but sometimes 2 or 3)
- **Credits** – courses are 10, 20, 40 or 60 credits in size
  Programmes consist of 120 credits per year
  1 credit requires approx. 10 hours of student effort to complete
- **Semester** – blocks of time over which courses are delivered
  There are 2 semesters (and 2 exam diets):
  - Semester 1 runs September to December
  - Semester 2 runs January to May (with a 2 week break in April)

MEng or BEng?

- All Engineering undergraduate degrees are available as either BEng or MEng
- Same entrance requirements for BEng / MEng
- Common for first 3 years
- Decision not required until end of Year 3
- MEng eligibility based on Year 3 performance (> 55%)
- Good valid reasons for doing either
- MEng standard for many professional UK Engineering roles
- Postgraduate MScs also available

Two points of entry

In Scotland, the majority of degrees are 4 years (Honours) or 5 years for Integrated Masters

- Students can enter most degree programmes in either:
  - **1st year** – BEng 4 years, MEng 5 years
  - **2nd year** - BEng 3 years, MEng 4 years
- Some programmes only permit 1st year entry:
  - Electronics & Computer Science
  - Structural Engineering with Architecture
  - General Engineering
- 2nd year entry depends on capacity, and is normally open to applicants with exceptionally good entry qualifications
- 1st year entry increases flexibility between programmes

Degree programme flexibility

- **General Engineering** (1st year only)
- **Chemical Engineering** **
- **Civil Engineering**
- **Structural & Fire Safety Engineering**
- **Electronics & Electrical Engineering**
- **Electrical & Mechanical Engineering**
- **Mechanical Engineering**
- **Electronics & Computer Science** * (Joint with Informatics)
- **Structural Engineering with Architecture** (Joint with ECA)

Common 1st year
(Engineering & Maths subjects)

Degree programme transfers often possible at end of Year 1 (Subject to capacity and prior entry qualifications)

* For Electronics & Computer Science, students must take Informatics 1 as their outside course options in Year 1.
** For Chemical Engineering, students must take Chemistry for Chemical Engineers 1A/1B as their outside course options in Year 1.

Common first year structure

Not including Structural Engineering with Architecture

Degree Programme Timetables:
http://www.drps.ed.ac.uk/25-26/dpt/drps_eng.htm

Engineering

Engineering Principles 1	20	S1
Choose any 1 discipline specific course: • Electronics & Electrical Engineering 1 • Mechanical Engineering 1 • Civil Engineering 1 • Chemical Engineering 1 • General Engineering 1	20	S2

Mathematics

Engineering Mathematics 1A	20	S1
Engineering Mathematics 1B	20	S2

Free choice

Choose 40 credits from any School

Free choice	40	S1/2

* For Electronics & Computer Science, students must take Informatics 1 as their outside course options in Year 1.

** For Chemical Engineering, students must take Chemistry for Chemical Engineers 1A/1B as their outside course options in Year 1.

Optional Courses

You can consider anything that fits in your timetable, e.g.

- Discovering Astronomy, Introductory Astrophysics
- Language – beginners / advanced
- Business and/or Entrepreneurship
- History and/or Philosophy of Science
- Politics in a Changing World
- Sustainable Development 1a: Introducing Sustainable Development
- Ancient History / History of Art
- Chemistry for Chemical Engineers 1A/1B ← Choose these if you are thinking of studying Chemical Engineering
- Informatics 1 – Object Oriented Progr./Intro. to Computation ← Choose these if you are thinking of studying Electronics & Computer Science (Severe capacity limits)

Year 1

Backbone (60 credits)
Engineering Principle
Engineering Maths 1A/1B

Electrical & Electronics (20 credits)
Electrical Engineering 1

Optional: Free choice from any school (40 credits)

Year 2

Backbone
Software & Embedded System
Engineering Maths 2A/2B

Electronics
Analogue, Digital, Microelectronics

Power
Power Engineering

Information
Programming, Algorithms, Signal & Comm. systems

Optional: Free choice from any school (20 credits)

Year 3

Backbone
Engineering Software
Microelectronics with Design and Manufacturing

Electronics
Analogue circuits,
Digital systems

Power
Power electronics,
Electromagnetic

Information
Signals,
Communications

Optional
Analogue/digital, signal labs,
free choice from any school (10 credits)

Year 4 (and year 5)

Backbone
BEng project (40 credits)
MEng project (60 credits)

Electronics
Bioelectronics,
Analog electronics,
Digital lab,
Lab-on-Chip

Power
Power systems,
Power conversion,
Energy resources,
Smart grids

Information
Digital communications,
Radio frequency,
Microwave circuits

Sample timetable

1st year Engineering student, Semester 1

A typical 10 credit course might consist of:

- 3 to 4 contact hours per week
- Delivery over an 11-week semester
- Requires approx. 100 hours of student effort to complete
- Mixture of continuous assessment and exam

	09:00	10:00	11:10	12:10	13:10	14:10	15:10	16:10
Monday		Lecture	Lecture			Lecture		Lecture
Tuesday				Lecture		Seminar		
Wednesday		Group Work		Workshop				
Thursday				Lecture				
Friday						Lecture		Seminar

Engineering Mathematics 1A
Engineering Principles 1
Optional Course

*Based on Discovering Astronomy

*This is a sample timetable. Courses may change from year-to-year and your own timetable may differ. Optional courses will have different timetables.

Study abroad

- Usually for 3rd year of study
  (Application process begins in year 2)
- Competitive process
- Huge range of countries and institutions available worldwide
- Choose from either:
  - An approved University-wide exchange scheme
  - An approved subject-specific exchange scheme

https://global.ed.ac.uk/study-work-away/study-exchanges

Scholarships

- Wide variety of internally and externally-supported Access Awards and Scholarship schemes available
- Check eligibility:
  - Some are merit-based
  - Some support under-represented groups
- Check dates of application:
  - Some require application before arrival
  - Some are awarded in later years

https://registryservices.ed.ac.uk/student-funding/undergraduate

Student Support

- Student Advisers
- Cohort leads
- Wellbeing Advisors
- Teaching teams
- Peer support student led groups (EngPALS)
- Institute for Academic Development
- University student services

  (Advice Place, Disability, Counselling, Chaplaincy, Student Life team, and many more).

More about this in the following session!

Facilities

- Nucleus - new shared learning, teaching and social hub at the heart of The King's Buildings
- Library on campus
- A wide range of modern teaching labs
- New Engineering building (opening Spring 2026)
- Student Makerspace

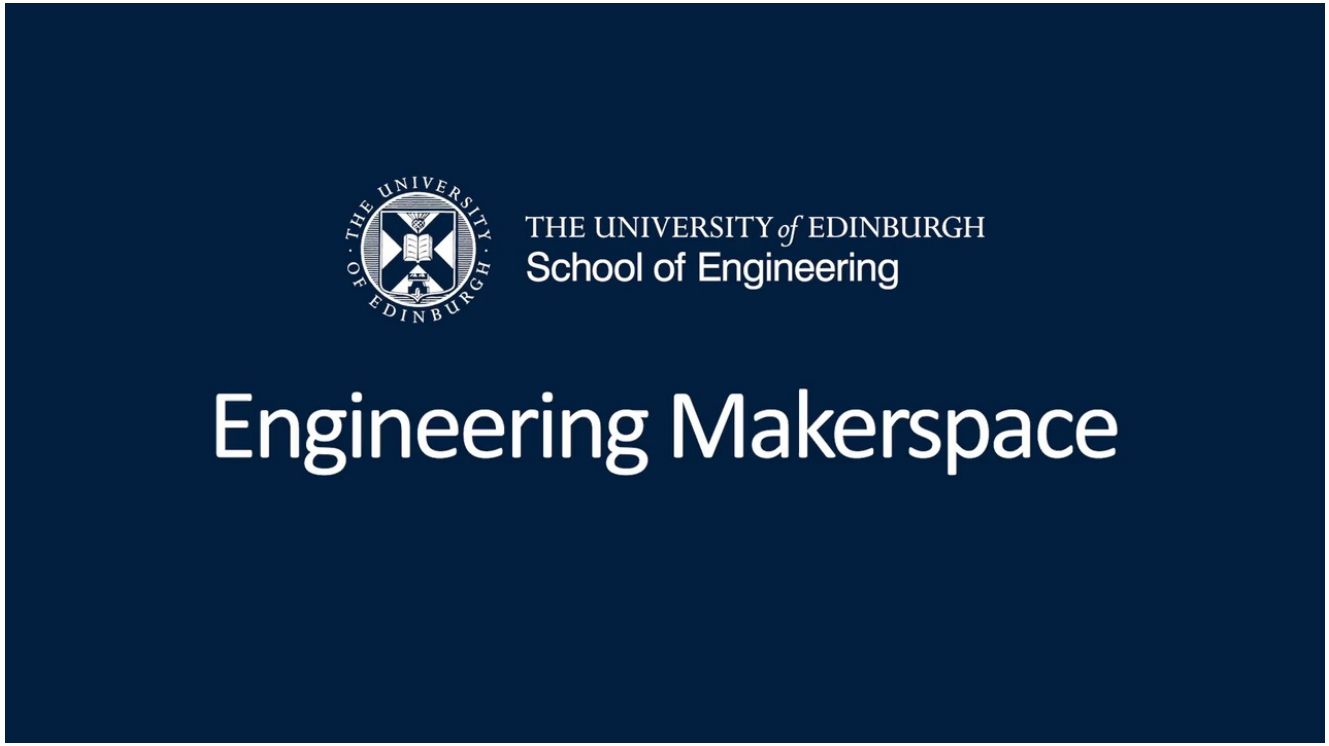
Nucleus

New Engineering building

Our facilities

Makerspace

Free-to-access facility for design and rapid prototyping.



https://www.youtube.com/watch?v=b0dqJMUp4bI

Societies

Student societies are an important part of University life.

- Some are academic:
  - Engineering Society
  - Chemical Engineering Society
- Some are project based:
  - Formula Student
  - Endeavour
  - HypEd
  - Hands-on! STEM Outreach Society
- Others focus on groups, activities or interests: https://www.eusa.ed.ac.uk/activities/list

Sport & Exercise

- Access to facilities (gyms, pools, climbing walls, and classes) Membership or one-off payments required
- Sports clubs operated by Edinburgh University Sports Union
  - 70 clubs to choose from
  - Coaching programmes
  - All levels: Beginner → Elite

https://www.ed.ac.uk/sport-exercise

Accommodation

- Guaranteed 1st year accommodation if:
  - You are a new, single student at the University
  - Your accommodation application is received by 31 July
  - You are UF (Unconditional Firm) on UCAS by 31 August
  - You reside outside the City of Edinburgh
  - You are studying at the University for the whole academic year, starting in September

- Mixture of self-catered and catered accommodation available

https://www.accom.ed.ac.uk
https://study.ed.ac.uk/undergraduate/fees-funding/fees-costs/living-costs

Careers & Industry

- School has strong links to industry
- Dedicated placements and internship team
- Engineering Careers fair
- Careers service (Nucleus Building)
- Top 10 in UK for graduate employability
  (Times Higher Education rankings 2025)
- 95.9% of Engineering graduates are in employment or further study
  (Measured 15 months after graduation)
  (Graduate Outcomes Survey 2024)

https://careers.ed.ac.uk/

Further information

- **Director of Student Recruitment**
  philip.hands@ed.ac.uk
- **Admissions & Student Recruitment Office**
  futurestudents@ed.ac.uk
- **Instagram**
  engineeringschooluoe
- **School of Engineering website**
  www.eng.ed.ac.uk
- **Applicant and offer holder website**
  www.ed.ac.uk/studying/undergraduate/applicants
- **UniBuddy** (Check your emails for more information)
  Network with current & prospective Edinburgh students