

About the College of Engineering and Physical Sciences



The College of Engineering and Physical Sciences is one of the largest groupings in Europe, bringing together physical sciences and engineering into one coherent college. The College is home to nine academic schools affording students, staff and alumni access to learning and career development opportunities which few educational institutions can match.

The College consists of nine academic schools:

• [Chemical Engineering \(/schools/chemical-engineering/index.aspx\)](/schools/chemical-engineering/index.aspx)

• [Chemistry \(/schools/chemistry/index.aspx\)](/schools/chemistry/index.aspx)

• [Civil Engineering \(/schools/civil-engineering/index.aspx\)](/schools/civil-engineering/index.aspx)

• [Computer Science \(http://www.cs.bham.ac.uk/\)](http://www.cs.bham.ac.uk/)

• [Electronic, Electrical and Systems Engineering \(/schools/eese/index.aspx\)](/schools/eese/index.aspx)

• [Mathematics \(/schools/mathematics/index.aspx\)](/schools/mathematics/index.aspx)

- [Mechanical Engineering \(/schools/mechanical-engineering/index.aspx\)](/schools/mechanical-engineering/index.aspx)
- [Metallurgy and Materials \(/schools/metallurgy-materials/index.aspx\)](/schools/metallurgy-materials/index.aspx)
- [Physics and Astronomy \(/schools/physics/index.aspx\)](/schools/physics/index.aspx)

[Open all sections](#)

Facts and Figures

The College is a vibrant community of staff, students and alumni.

- 514 academic staff
- 252 professional, support and technical staff
- 3515 undergraduate students
- 1512 postgraduate and PhD students.
- 57567 alumni

Strategic Focus

The University strategy informs the College strategy in education, research and business engagement. Our strategy focuses on:

- Continuous enhancement of our high quality student educational experience through curriculum enhancement, facilities, internships and employability opportunities;
- Development of distinctive and leading research groups in and between our science and engineering schools;
- Growing partnership with employers, research funders and beneficiary organisations in the region and internationally;
- Global collaborations in education and research from our city-city bridges in San Paulo, Guangzhou and Chicago;
- Translation of knowledge both within the academic community and externally with active celebration of our impact on society;
- Building the future pipeline of high quality science and engineering graduates through activities with School and employers through our national STEM Centre.

Teaching

Across our nine academic schools we offer a broad range of [undergraduate \(/university/colleges/eps/study/undergraduate/index.aspx\)](/university/colleges/eps/study/undergraduate/index.aspx), [postgraduate taught and executive programmes \(/university/colleges/eps/study/postgraduate/index.aspx\)](/university/colleges/eps/study/postgraduate/index.aspx). We teach over 100 undergraduate programmes as single or joint honours, over 50 Masters programmes and have a growing portfolio of executive programmes delivered for niche markets or industrial partners.

Research

The College is home to many research groups that sit within academic schools but that also contribute to three overarching research themes spanning the breadth of the College. They are:

- [Science Frontiers \(/university/colleges/eps/research/science-frontiers/index.aspx\)](/university/colleges/eps/research/science-frontiers/index.aspx): Fundamental breakthroughs in our understanding of the way nature works.
- [Advanced Manufacturing \(/university/colleges/eps/research/advanced-manufacturing/index.aspx\)](/university/colleges/eps/research/advanced-manufacturing/index.aspx): Driving industry forward; delivering the edge in the global competition through innovation.
- [Resilience, Energy and Sustainability \(/university/colleges/eps/research/resilience-energy/index.aspx\)](/university/colleges/eps/research/resilience-energy/index.aspx): Tackling the challenges of future generations now.

Partners

Many of our areas of research excellence are undertaken in partnership with leading industrial partners. Examples of our strategic partners include:

- Manufacturing Technology Centre a translational centre for taking new methodologies and modelling methods related to manufacturing into large scale trial in partnership with over forty industrial partners.
- Rolls Royce – a long standing partnership as part of the Rolls University Technology Centre structure relating to aerospace materials research and doctoral training. A major new form of partnership now includes a High Temperature Research Centre that focuses on casting technologies.
- Jaguar Land Rover Ltd – a strategic relationship including undergraduate scholarships and research in vehicle technology focusing on power train engineering,

