

*Enhancing  
postgraduate  
research  
in a thriving  
environment*

RESEARCH DEGREES

## Science and Engineering

The Faculty of Science and Engineering welcomes students who are interested in pursuing PhD, MRes or MPhil research degrees in our departments of:

- Natural Sciences;
- Chemical Engineering;
- Mechanical Engineering;
- Electronic and Electrical Engineering;
- Mathematics;
- Computer Science.

We have a highly collegiate approach to research with the research interests of staff falling across traditional departmental boundaries and across the academic-industry divide. This gives rise to exciting cross-disciplinary project areas that can make use of all the facilities of the departments that make up the Faculty. Projects are designed around the fundamental underpinning science and technology necessary for progress in one or more specific industry sectors, and can involve experimental, theoretical, computational or modelling aspects.

The Faculty enjoys high-level facilities in materials analysis and characterisation, microscopy, chemical analytical science, photonics, laser treatments for surface and materials modification, mechanical, electrical and computational workshops. We have access to the University's High Performance Computing cluster, and are supported by state of the art library and information resources.

The Faculty of Science and Engineering is based at Thornton Science Park – a major research and innovation hub for the North West. The Science Park is home to technology companies with active research links with the Faculty. It also offers incubator space and business services for young and developing enterprises.

Currently the Faculty is engaged in research that covers a wide range of topics. Examples include investigations of improved materials properties by surface laser treatments, development and evaluation of next generation technologies for fuel cell and redox battery systems, modelling and optimisation of biofuel source material pre-treatments, atmospheric chemistry and indoor air quality, investigations of the adhesion and control of biofilms in industrial and medical processes, human-computer interaction, virtual and mixed reality, cybersecurity, information visualization, visual analytics and wearable computing. Further details available at <http://www.chester.ac.uk/science-engineering/research>

Suggestions and proposals for research in these and related areas are always welcome. However, the Faculty is in an expansion phase and we expect the range of research activities to grow and broaden in the immediate future. In the first instance, please contact the head of the appropriate department for an initial discussion (see staff web pages at <http://www.chester.ac.uk/science-engineering/staff> ). If you are not sure which department to contact, please e-mail [science&engineering@chester.ac.uk](mailto:science&engineering@chester.ac.uk). Research in the Faculty of Science and Engineering at the University of Chester is conducted as part of our open and vibrant culture, and we look forward to hearing from you.

Postgraduate Research (PGR) Admissions:

 [pgradmissions@chester.ac.uk](mailto:pgradmissions@chester.ac.uk)  01244 511000