

Enhancing  
postgraduate  
research  
in a thriving  
environment

RESEARCH DEGREES

## Biological Sciences

Biological Sciences at the University of Chester is based around an innovative group of about 30 academic staff, research students and post-doctoral workers who are committed to providing high quality teaching and research.

The University of Chester welcomes students to undertake research towards MRes, MPhil and PhD research degrees in Biological Sciences.

The Biological Sciences Department's research is underpinned by a diverse range of staff research interests; this also provides exciting opportunities for study. There are a number of external bodies who collaborate with the Department including: Countess of Chester Hospital, Betsi Cadwaladr Hospital, Robert Jones and Agnes Hunt Orthopaedic Hospital – Oswestry, Veterinary Tissue Bank Ltd, and Chester Zoo. These connections are further enhanced by links with other regional and international universities.

The research facilities include: 4 biochemistry / cell biology laboratories containing tissue culture and flow cytometry facilities, as well as UV-Vis, fluorescence and atomic emission spectroscopy facilities. In addition we have a cell imaging (fluorescence microscopy) suite, a microbiology laboratory, a molecular biology lab with PCR and RT-qPCR instrumentation, a stem cell research laboratory and 2 newly built laboratories dedicated to conservation biology / genetics and animal behaviour and stress research.

All postgraduate students can take advantage of the Department's structured supervisory network which ensures the student's development is enhanced throughout their time studying at Chester. This is also strengthened by regular subject-specific and employability skills workshops as well as a research seminar programme.

The Department has 3 main areas of research that broadly encompass: **Conservation Biology** (of both terrestrial and aquatic ecosystems that focuses on, man-made impacts, ecosystem modelling and conservation genetics); **Animal Welfare and Behaviour** (with emphasis on both animal stress / pain as well as their social structures and interactions); and **Molecules Cells & Tissues Research** (which includes, cancer biology, stem cells and tissue regeneration, detection of biomarkers of disease, ecotoxicology, cell signalling, pharmacology, membranes and drug delivery, molecular immunology and histopathology). Research interests across Faculty include, the Stem Cells and Tissue Regeneration Research Group and the Food Nanotechnology Research Group, in collaboration with the Institutes of Medicine and Food Science & Innovation.

We are particularly keen to hear from students who would like to undertake research in any of the areas highlighted above.

Please contact Professor Frank Michelangeli for further information. Email: [f.michelangeli@chester.ac.uk](mailto:f.michelangeli@chester.ac.uk) and also to discuss the application process and research projects available.

Postgraduate Research (PGR) Admissions:

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