

## Faculty of Arts and Sciences Graduate Teaching Assistantships/PhD Studentships

### About Us

The Faculty of Arts and Sciences is home to a large and diverse group of disciplines with a track record of excellence in research, much of which crosses traditional disciplinary boundaries. We are particularly keen to continue to build our research capacity, and welcome applications for studentships spread across all subject areas in the Faculty.

### Centre for Data Science STEM Research

The centre is a forum for shared thinking and interdisciplinary work, blending the expertise from the **Biology**, **Computer Science** and **Geography** departments, with particular emphasis on enabling and visualising intelligence using data science approaches.

We are particularly keen to continue to build our research capacity, and welcome applications for PhD studentships that in addition to being based in departments will be associated with the Centre.

Research proposals are invited on the following:

- Immersive data visualisation and analytics for biological graphs
- Bio-inspired advanced manufacturing systems
- 3D reconstruction and immersive visualisation of geomorphology
- Modelling and applying best practices in farms and crops management
- 3D phenotyping of plants from multi-view images
- Multi-scale remote sensing and ecology
- Multi-scale remote sensing and coastal cliff collapse

Informal enquiries to Professor Nik Bessis, [Nik.Bessis@edgehill.ac.uk](mailto:Nik.Bessis@edgehill.ac.uk)

The **Biology** and **Geography** Department invites applications for the following project:

- Effect of volcanic ash depositions on epiphytes in Papua New Guinea

Please contact Dr Sven Batke, [sven.batke@edgehill.ac.uk](mailto:sven.batke@edgehill.ac.uk) for further information.

### Aims:

- 1) To model past atmospheric volcanic ash deposition for active volcanos (e.g. Rabul, Langila and Ulawun) in the Gazelle Peninsula in New Britain, Papua New Guinea.  
[\[modelling/ observational; desk/ field\]](#)
- 2) To quantify the deposition of ash within forest canopies.  
[\[observation/experimentation; field\]](#)

- 3) To investigate the physiological effect of ash deposition on epiphytic orchids and ferns. [\[experimentation; field\]](#)