

PhD on the quantification of the impact of natural variability and possible volcanic futures on climate projections across the Irish and British Isles



Maynooth University
Ollscoil Mhá Nuad

Details of the Award

The ICARUS Climate Research Centre is pleased to announce that a PhD Scholarship will be available for one student intending to commence PhD studies in January 2025.

The student will be part of the exciting new Co-Centre for climate + biodiversity and water which is a collaboration across Ireland, Northern Ireland and Great Britain. The PhD will form an important component of the overall research plan by highlighting the role of factors other than human emissions which may impact climate across the Irish and British isles over coming decades. The student will be expected to work with a combination of paleo, observational and model-based lines of evidence to quantify how non-human factors might interact with continued human emissions to determine our climate over coming decades. The student will be co-supervised by Prof. Peter Thorne of Maynooth University and Prof. Ed Hawkins of University of Reading.

Value of Scholarship

The scholarship is fully funded for a period of 4 years. All student fees will be paid and a stipend of 22 thousand euros per annum paid to the student for the duration.

Role of the student

The student will be expected to identify and analyse appropriate datasets to inform our understanding of the role of non-human factors in future climate projections across NW Europe with a focus upon the Irish and British Isles. This may include recourse to: paleo data, observationally based products and various Earth System Model and regional model outputs. The focus will be on impact relevant variables such as temperature, precipitation and storminess. The student will be expected to submit their work for publication.

Eligibility Criteria

Full time research degree students who have a relevant first class or 2.1 honours in their primary degree, or have a relevant Masters degree, are eligible to apply. Relevant subjects include meteorology / climate science, environmental science, geography, physics, computer science, maths and statistics or a cognate discipline.

Essential criteria:

- Proven ability to work with large datasets
- Statistical training
- Competency in one or more scientific programming languages

Desirable criteria:

- Knowledge of the climate of NW Europe and key climate mechanisms in the region

- Experience working in large inter-institutional teams

Duration

The scholarship will be awarded for 4 years of study, subject to satisfactory annual review of progress in research.

Application and Selection Criteria

Applicants are required to submit the following to by the closing date:

- Personal statement
- Curriculum Vitae
- Relevant academic final transcripts

All eligible candidates will be considered. Applicants may be shortlisted for interview and, if so, will be contacted directly.

Applications should be submitted to peter.thorne@mu.ie

Closing Date

Applications will close at 23.59 Irish Summer time on 27th September

Further details available

Queries can be sent to peter.thorne@mu.ie