

PHD OPPORTUNITY AT ICARUS, DEPARTMENT OF GEOGRAPHY, MAYNOOTH UNIVERSITY, KILDARE, IRELAND

The Irish Climate Analysis and Research Units (ICARUS) at Maynooth University are seeking to recruit a funded PhD student in the area of physical oceanography and climate. The student will work as part of the A4 project.

The A4 (Aigéin, Aeráid, agus athrú Atlantaigh—Oceans, Climate, and Atlantic Change) project is targeting three areas of physical oceanography and climate research: understanding Atlantic variability and its connection to the Irish shelf advancing knowledge of Irish sea-level change in an Atlantic context; and development of predictive capacity on decadal timescales.

**Project title: Tailored decadal predictions for Ireland and its surrounding seas
(Supervisors: Dr André Düsterhus, Maynooth University and Dr Gerard McCarthy,
Maynooth University)**

This project is based on understanding the specific sources for decadal predictability from the North Atlantic and using the information gathered to tailor decadal predictions to stakeholder's needs. The student will analyse data from different decadal prediction centres and identify potential for predictability in and around Ireland. In consultation with stakeholders the student will identify their needs and tailor decadal prediction information to them. Important here will be the form of communication vehicle for delivering these information.

The candidate will work with Dr André Düsterhus in the research group in physical oceanography and climate at ICARUS, Maynooth University, with co-supervision from Dr Gerard McCarthy. The position will be part of the wider group funded by the Marine Institute for the A4 project involving Trinity College Dublin and the Hamilton Institute in Maynooth University. The student will also work closely with international partners and large computer facilities around Europe.

All applicants must have

- Relevant 2:1 degree (or higher) in Oceanography, Meteorology, Geoscience, Environmental Science, Geography, Physics, Mathematics, Engineering, Computer Science, Statistics, or similar qualification
- Experience of coding in one or more of Matlab, C, R or Python
- Excellent written and verbal communication and presentation skills in English

The studentship is for 48 months and include a tax free stipend of €18,000 p.a. and the payment of academic fees up to a maximum of €6,200 per annum, as well as a computer and travel allowance.

Application Procedure: send a curriculum vitae and a cover letter to andre.duesterhus@mu.ie with **A4 PHD** in the subject line.