

**Dundalk Institute of Technology invite applications for the following position:  
PhD postgraduate Scholarship (Full-time: 36 months)**

**Project overview**

**Title:** *RETINA: Remote Sensing of Global Surface Waters*

**Supervisor:** Prof Eleanor Jennings (DkIT) and Dr R. Iestyn Woolway (University of Reading, UK)

**Position Reference:** LPhD09

**Project overview**

Some of the primary responses of lakes to climatic change are those occurring at the surface, including changes in ice cover, water temperature, lake colour, and water level/extent, known collectively as Lake Essential Climate Variables (ECV's). These have changed dramatically in recent decades. The European Space Agency's CCI Lakes project, is now generating time-series covering all Lake ECV's. This project will investigate the effects of climate change on Lake ECV's worldwide. It will include training in 1: analysing satellite observations, 2: manipulation of large datasets, and 3: statistical analysis. The outputs will provide knowledge on how climatic change affects lakes

**Dundalk Institute of Technology**

Dundalk Institute of Technology is a dynamic, world class Institute that has developed an international reputation in both basic and applied research through its Research Centres. This PhD Scholarship is offered through the Creative Arts Research Centre, within the School of Informatics and Creative Arts at DkIT. The successful applicant will be registered as a full time postgraduate research student in the DCU-DkIT Graduate School. The PhD position will be located on the DkIT campus and the Degree will be awarded by Dublin City University.

**Funding**

This project is co-funded by the HEA Landscape Fund and DkIT.

The successful candidate shall receive a postgraduate stipend of €16,000 per annum, plus fees and a contribution to their direct research project costs up to a maximum of €5,000 per annum. The duration of this PhD studentship is 36 months. Terms and conditions will apply.

## Eligibility

Eligibility Criteria:	Essential	Desirable
Qualifications	2:1 Honours Degree (or equivalent) in Environmental Engineering, Environmental Sciences or related subject	A masters degree in environmental science, computer science, climatic change, or statistics
Experience/knowledge	<ul style="list-style-type: none"><li>• High level of data handling and analysis skills.</li><li>• Knowledge of freshwater science.</li><li>• Be able to work on own initiative and organise own work timetable</li><li>• Strong communication, social media and interpersonal skills</li></ul> Good English language skills	<ul style="list-style-type: none"><li>• Experience in use of programming languages e.g. R, Matlab, Python</li><li>• Knowledge of climate change effects on freshwater systems</li></ul>

It is also a requirement that any applicant whose first language is other than English must have a certified English language proficiency of at least IELTS 6.5 or equivalent.

### Application process

Please send a copy of your CV and a 1-page cover letter to [orla.lynch@dkit.ie](mailto:orla.lynch@dkit.ie) no later than **4.00 pm on Thursday 18<sup>th</sup> Nov 2021**. Applications received after this time will not be considered.

Please use the position reference **"LPhD09"** in the subject title.

Short listed candidates will be invited to interview.

Informal inquiries should be sent to; [eleonor.jennings@dkit.ie](mailto:eleonor.jennings@dkit.ie)

Please note, canvassing will render an applicant ineligible.