

Postdoctoral Researcher in Geophysics

The Dublin Institute for Advanced Studies (DIAS) is a government funded academic research institution in Dublin, Ireland. The Geophysics Section of the School of Cosmic Physics is currently seeking applications for a Postdoctoral Researcher position. The focus of this role is to investigate the feasibility of employing Distributed Acoustic Sensing (DAS) through optical fiber cables as a means of locating and monitoring conduits in karst that host flowing water. This new project will build off the novel results from a prior project in which seismometers were used in the same context. The results of that work will be available to this project. The study will involve conducting field trials and data analysis using both DAS technology and traditional seismic sensors, and will require communication with local land owners. There will also be a substantial numerical modelling component to this work, in an effort to understand the detailed processes at play. Funded by iCRAG, the candidate will be a member of the iCRAG team, the SFI Research Centre in Applied Geosciences.

Required:

- Holds a PhD in seismology.
- Substantial full seismic wavefield computational modelling experience.
- Experience in modelling DAS response is an advantage.
- Excellent level of proficiency in English is essential.
- Demonstrated capability in handling very large data volumes.
- Demonstrated capability in bringing original research work to completion.
- Demonstration of past proactive engagement in wider teamwork.

Duration: Full time. One year.

Salary: Salary range for this position will start on the first point of the SFI Level 2B Experienced Post-Doctoral Research Scale Oct 2023 (€50,539)

Start date & Location: 1st May 2024, Based in Dublin

To apply: Please submit a single pdf containing your academic CV (max 2 pages) and a statement on your interest in and fit for the position (max one page) and the contact details of two referees, [here](#). Applications that do not comply with these page limits will automatically be rejected.

Application deadline: 17:00 March 15th, 2024

DIAS is an equal opportunity employer.

The DIAS Gender Equality and Inclusion Action Plan may be found here:

<https://www.dias.ie/wp-content/uploads/2021/02/DIAS-Gender-Equality-and-Inclusion-Action-Plan-Web.pdf>

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