Candidate Information

Position:	Research Fellow in Geophysics
School/Department:	School of Natural and Built Environment
Reference:	24/112328
Closing Date:	Tuesday 31 December 2024
Salary:	£39,922 per annum
Anticipated Interview Date:	Thursday 16 January 2025
Duration:	4 Months

JOB PURPOSE:

To be an active member of the GEMINI (Geothermal Energy Momentum on the IslaNd of Ireland) research team assisting in the planning and delivery of the research activity within the areas of geology, geophysics and modelling so that the overall research objectives of the GEMINI project are met.

MAJOR DUTIES:

1. Develop and undertake research within the GEMINI project as a member of the research team.
2. Design, develop and refine experimental models to obtain reliable data.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Prepare, often in consultation with the project team, material for publication in national and international journals and presentations at international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out routine administrative tasks associated with the research project to ensure that the project is completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
8. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
9. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

ESSENTIAL CRITERIA:

1. PhD in Geology, Geophysics, Engineering or a related discipline with a strong background in the use and analysis of airborne geophysical data.
2. Demonstrable track record of research in the interpretation of airborne geophysical data with a publication record in peer reviewed journals.
3. Demonstrable experience in analysis of airborne magnetic data, in particular for the identification of igneous dyke intrusions.
4. Ability to contribute to broader management and administrative processes.
5. Ability to contribute to the Project's outreach programme by links with industry, community groups etc.
6. Demonstrable ability to devise, advise on and manage key sections in major projects.
7. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
8. Proven ability to communicate complex information clearly.
9. Proven ability to build contacts and participate in internal and external networks.
10. Demonstrable intellectual ability.
11. Proven ability to assess and organise resources.
12. Ability to work within a multidisciplinary team.

13. Willingness and ability to travel as required to engage with project team members across the Island of Ireland

DESIRABLE CRITERIA:

1. Experience of developing code/numerical tools for the analysis of airborne magnetic data.
2. Experience with spatial data management and analysis tools such as GIS, Oasis Montaj.
3. Proven ability to contribute to international multi-disciplinary research teams.
4. Demonstrable ability to manage and motivate junior research staff.