

Candidate Information

Position:	Research Fellow
School/Department:	School of Natural and Built Environment
Reference:	25/112554
Closing Date:	Monday 23 June 2025
Salary:	£39,922 per annum
Anticipated Interview Date:	Monday 4 August 2025
Duration:	24 months

JOB PURPOSE:

To be a highly productive, ambitious and collaborative member of the ThermoCal research project/team assisting in the development of research proposals and the planning and delivery of the research activity within the areas of geophysics (in particular airborne and downhole radiometrics), geology and modelling so that the overall research objectives of the ThermoCal project are met.

The post is a critical role, and as such, successful applicants will have responsibilities in independent research, supervision, planning, day to day management of field work, collaborations, and stakeholder outreach.

MAJOR DUTIES:

- 1. Undertake research under supervision within the ThermoCal research team.
- 2. Design, develop and refine research using a range of experimental models across the areas of airborne, surface and downhole geophysics, spatial data analysis and geothermal energy resources.
- Carry out analyses, critical evaluations, and interpretations of experimental data and the literature using methodologies and other techniques appropriate to area of research, for example in the collection, analysis and modelling of airborne and downhole radiometric geophysical data.
- 4. Produce high quality research outputs consistent with project aims and commensurate with career stage. This will include collaborating and co-authoring with PI and project team (as appropriate) on outputs.
- 5. In consultation with the project team, promote research milestones and outputs at national and international conferences.
- 6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
- 7. Carry out occasional educational supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
- 8. Undertake supplementary duties relevant to the success of the project including administrative duties and additional training and development activities as required.

ESSENTIAL CRITERIA:

- 1. Have or about to obtain a PhD in Geology, Geophysics, Engineering or a related discipline with a strong background in the use and analysis of airborne geophysical data, in particular radiometric data.
- 2. Specific, relevant research experience to include:
 - Demonstrable track record of research in the interpretation of airborne geophysical data with a publication record in peer reviewed journals commensurate with stage of career.
 - Working effectively as part of a research team in the development and promotion of the research theme.
- 3. Ability to contribute to broader management and administrative processes.
- 4. Contribute to the School's outreach programme by links with industry, community groups etc.
- 5. Practical problem solving skills, independence of thought and initiative.
- 6. Ability to assess and organise resources.
- 7. Ability to communicate complex information in English effectively in oral and written format.
- 8. Ability to build relationships to develop internal and external networks.
- 9. Commitment to continuous professional development.

- 10. Willingness and ability to travel as required to engage with project team members across the UK and Norway.
- 11. Willingness and ability to organise and complete fieldwork in the UK and Norway.

DESIRABLE CRITERIA:

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