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| Last updated: | <29/07/2022> |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow in Geophysics** |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals |
| School/Department: | OES |
| Faculty: | FELS |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Prof Timothy Henstock |
| Posts responsible for: | N/A |
| Post base: | Non Office-based (see job hazard analysis) |

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| Job purpose |
| To undertake research linked with the “IMPULSE” research project. The primary aim of this project is to understand the formation of V-shaped ridges in the North Atlantic, and determine whether they are caused by pulses of hot mantle within the Iceland plume. The postholder will process and interpret multichannel seismic reflection profiles and ocean-bottom seismograph data, and integrate the outcomes with partners in Birmingham and Cambridge. |

| Key accountabilities/primary responsibilities | % Time |
| --- | --- |
|  | To develop and carry out personal research supporting the grant objectives | 55 % |
|  | Regularly disseminate findings by taking the lead in preparing publication materials for referred journals, presenting results at conferences, or exhibiting work at other appropriate events. | 15 % |
|  | Collaborate/work on original research tasks with colleagues in other institutions. | 20 % |
|  | Carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control. | 5 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5% |

| Internal and external relationships |
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| Direct responsibility to holder of research award or academic supervisor. Collaborators/colleagues in other work areas and institutions. |

| Special Requirements |
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| To be available to participate on research expedition on board R/V Marcus G Langseth (31 July to 5 September 2024) as required by the specified research project; this will require passing a Seafarer’s Medical (ENG1) and STCW95 Personal Survival Training.To attend national and international conferences for the purpose of disseminating research results.*Applications for Research Fellow positions will be considered from candidates who are working towards or nearing completion of a relevant PhD qualification. The title of Research Fellow will be applied upon successful completion of the PhD. Prior to the qualification being awarded the title of* ***Senior Research Assistant*** *will be given.* |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | PhD or equivalent professional qualifications and experience in GeophysicsDetailed understanding and knowledge of GeophysicsKnowledge and experience of at least one of:processing and interpretation of marine multichannel seismic reflection data;processing and interpretation of active source ocean-bottom seismograph data;full waveform inversion applied to marine seismic data | PhD in Active Source Marine SeismologyExperience with geophysical data acquisition at sea | Application/Interview |
| Planning and organising | Able to organise own research activities to deadline and quality standards |  | Application/Interview |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address themAble to develop original techniques/methods |  | Application/Interview |
| Management and teamwork | Able to supervise work of junior research staff, delegating effectivelyWork effectively in a team, understanding the strengths and weaknesses of others to help teamwork development |  | Application/Interview |
| Communicating and influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audienceAble to present research results at group meetings and conferencesAble to write up research results for publication in leading peer-viewed journalsWork proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes |  | Application/Interview |
| Other skills and behaviours | Understanding of relevant Health & Safety issuesPositive attitude to colleagues and students |  | Application/Interview |
| Special requirements | Able to attend national and international conferences to present research results | Able to take part in R/V Langseth research expedition, and to obtain ENG1 and STCW95 certification | Application/Interview |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

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| [ ]  Yes | If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| [x]  No | If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below.Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

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| **ENVIRONMENTAL EXPOSURES** | **Occasionally** (<30% of time) | **Frequently**(30-60% of time) | **Constantly**(> 60% of time) |
| Outside work  | X |  |  |
| Extremes of temperature (eg: fridge/ furnace) |  |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: |  |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation  |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** |
| ## Food handling  |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV)  |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (eg: strimmers, hammer drill, lawnmowers)  |  |  |  |
| **PHYSICAL ABILITIES** |
| Load manual handling | X |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing |  |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods |  |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (eg: pipetting) |  |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height |  |  |  |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** |
| Face to face contact with public |  |  |  |
| Lone working |  |  |  |
| ## Shift work/night work/on call duties  | X |  |  |