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| Last updated: | <date> |

**JOB DESCRIPTION**

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| Post title: | **Senior Technician, Marine and Terrestrial Geophysics** |
| Standard Occupation Code: (UKVI SOC CODE) | TBC (311X) – Depends on Specialist Area |
| School/Department: | School of Ocean and Earth Science |
| Faculty: | Environmental and Life Sciences |
| Career Pathway: | Technical and Experimental (TAE) | Level: | 4 |
| \*ERE category: |  |
| Posts responsible to: | Head of Research Group, Lisa McNeill |
| Posts responsible for: | N/A |
| Post base: | Office and field based |

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| Job purpose |
| To maintain marine and terrestrial geophysical equipment for research projects and for teaching, to operate said equipment offshore (nearshore and coastal environments) and onshore as part of taught field courses in geoscience and oceanography, to participate in data collection using said equipment for a range of cutting-edge research projects in marine geophysics, and to undertake equipment development.  |

| Key accountabilities/primary responsibilities | % Time |
| --- | --- |
|  | To ensure the teaching and research objectives of the School are met by maintaining a range of specialist marine and terrestrial geophysical equipment ready for operation in both taught field courses and research project fieldwork. Responsibility for mobilisation and operation of equipment offshore and onshore during student field courses throughout the academic year, instructing students in equipment operation, and relevant safety issues. | 30 % |
|  | To provide a repair and fault finding service including planned maintenance of equipment and devices within the work environment, advising on future resource requirements and equipment upgrade, and ensuring health and safety standards within the environment are complied with by staff and students. Developing and building specialist instrumentation and equipment and developing solutions, techniques and procedures where needed. | 15 % |
|  | To demonstrate and advise research staff and students on techniques and the use of equipment in relation to University field work and projects, assisting in the interpretation of data. Provide advice and support relating to the use of any equipment or devices. | 15 % |
|  | To participate in research projects across a range of geophysics, geology and oceanographic research areas, involving preparation and mobilisation of equipment, equipment operation at sea (for periods up to 2 weeks), and equipment development.  | 20 % |
|  | To maintain the Marine Geophysics laboratory, and instruction of users in relevant health and safety | 10 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder | 10 % |

| Internal and external relationships |
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| New appointees will be assigned a senior colleague and mentor to guide their development and aid their integration into the School and University. Technical, teaching-related and research activities will be allocated by the Line Manager, in collaboration with other members of the research group and directors of teaching programmes.Other members of the department/Faculty/University staff.Undergraduate, postgraduate and visiting students.Estates staff.External customers.Equipment and service suppliers.Attend meetings and conferences, internal and potentially external. |

| Special Requirements |
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| Ability to respond to flexible working hours.Prepared to work away from NOCS, and from home for periods up to 2 weeks.To have a reasonable level of physical fitness.Ability to accomplish manoeuvring of heavy or awkward loads/equipment.Current UK Driving license.Ability to obtain and maintain ENG1 and Sea Survival training certificate. |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | A degree, **or skill-level equivalent**, in a relevant subject area (engineering, electronics, geophysics, geology, oceanography)Qualifications and/or experience at least equivalent to an HND in electronicsTrack record of working with electronic equipment, with proven experience of fault-finding and repairUnderstanding of how the specialist technical services provided by the post holder support the objectives of the University. | Experience with maintenance and repair of marine instrumentationExperience conducting marine and/or terrestrial geophysical surveysExperience of design and manufacture of custom instrumentation | Application and interview |
| Planning and organising | Demonstrated ability to work independentlyDemonstrated ability to deliver tasks within agreed budgetsAble to progress a broad range of activities within professional guidelines and in support of University policy.  | Experience of successful project management. | Application and interview |
| Problem solving and initiative | Ability to prioritise tasks to meet agreed deadlinesAbility to apply specialist technical knowledge to analyse complex problems and recommend solutions/plans of action. | Ability to proactively communicate with equipment manufacturers and fellow technicians to solve problems | Application and interview |
| Management and teamwork | Ability to work in a team, both in a laboratory or in the field Able to formulate development plans for staff to meet required skills. | Able to collaborate with others with specialist skills to deliver collective successful outcomes e.g., academic staff, specialist techniciansExperience of successfully managing and developing staff.Able to delegate effectively when necessary, understanding the strengths and weaknesses of team members to build effective teamwork. | Application and interview |
| Communicating and influencing | Ability to communicate clearly information about equipment operation and to deliver instructions to students and researchersAble to provide accurate and timely specialist guidance on complex issues. Able to use influencing and negotiating skills to develop understanding and gain co-operation. |  | Application and interview |
| Other skills and behaviours | Positive attitude to colleagues and students |  | Application and interview |
| Special requirements | Current UK Driving licensePrepared to respond to flexible working hours and to working away from home for periods up to 2 weeksTo be physically fit and able to manoeuvre heavy/awkward loadsAbility to obtain and maintain ENG1 and Sea Survival training certificateWorking knowledge of Health and Safety regulations and safe work practices, and willingness to undertake Health and Safety training specific to role |  | Application and 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) | x |  |  |
| ## 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: | x |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation  |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** |
| ## Food handling  |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV)  | x |  |  |
| ## 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) | x |  |  |
| 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 | x |  |  |
| ## Shift work/night work/on call duties  |  |  |  |