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| Last updated: | 22/08/23 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow** | | |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals | | |
| School/Department: | School of Mathematical Sciences | | |
| Faculty: | Social Sciences |  |  |
| Career pathway: | ERE | Level: | 4 |
| \*ERE category: | Research pathway | | |
| Posts responsible to: | Professor in Applied Mathematics | | |
| Posts responsible for: | None | | |
| Post base: | Office-based | | |

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| Job purpose |
| To undertake research on Lithium-Ion Battery Manufacture as part of a research grant funded by NextRode. |

| Key accountabilities/primary responsibilities | | | % Time |
| --- | --- | --- | --- |
| 1. Develop and carry out a research programme overseen by the award holder. | |  | 70% |
|  | 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% |
| 1. Participate in weekly meetings with the grant holder; participate in seminars; collaborate with research students and other members of the group. | |  | 5% |
| 1. 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% |
| 1. 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% |

| Internal and external relationships |
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| Collaboration with the award holders.  Interaction with the members of the wider Applied Mathematics research group. |

| Special Requirements |
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| To be available to participate in fieldwork as required by the specified research project.  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 & experience | PhD or equivalent professional qualifications and experience in Astronomy, Mathematics, Physics, or a related discipline | Experience and research track record in some aspects of neutron star physics, gravitational-wave theory, or numerical relativity. | CV,  publications, references, interview |
| Planning & organising | Ability to conduct research both independently and in collaboration with peers. |  | CV, publications, references, interview |
| Problem solving & initiative | Ability to develop understanding of complex problems and apply in depth knowledge to address them |  | CV, publications references, interview |
| Management & teamwork | Able to contribute to School/Department management and administrative processes  Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development | Experience with collaborative work | CV, references, interview |
| Communicating & influencing | Good communication skills, both written and oral; ability to write up research results for publication in leading peer-reviewed journals |  | CV,  publications, references, interview |
| Other skills & behaviours | Understanding of relevant Health & Safety issues  Positive attitude to colleagues and students |  | references, interview |
| Special requirements |  |  |  |

**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 (e.g.: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| No | If this post is not office-based or has some hazards other than routine office (e.g.: 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 |  |  |  |
| Extremes of temperature (e.g.: fridge/ furnace) |  |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (e.g.: solvents, liquids, dust, fumes, biohazards). Specify below: |  |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** | | | |
| ## Food handling |  |  |  |
| ## Driving university vehicles (e.g.: car/van/LGV/PCV) |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (e.g.: strimmers, hammer drill, lawnmowers) |  |  |  |
| **PHYSICAL ABILITIES** | | | |
| Load manual handling |  |  |  |
| 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 |  |  |  |