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| Last updated: | July 2022 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow** |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals |
| School/Department: | Physics and Astronomy |
| Faculty: | Faculty of Engineering and Physical Sciences |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Principle Investigator |
| Posts responsible for: | na |
| Post base: | Office-based/Non Office-based (see job hazard analysis) |

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| Job purpose |
| To undertake research in accordance with the specified research project under the supervision of the award holder. To undertake leadership, management and engagement activities. |

| Key accountabilities/primary responsibilities | % Time |
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|  | To develop and carry out an area of research.  | 45% |
|  | 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. | 10% |
|  | Contribute to the writing of bids for research funding. | 4 % |
|  | Collaborate/work on original research tasks with colleagues in other institution(s) as specified in the project. | 30 % |
|  | 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. | 1 % |
|  | Supervise the work of junior research staff. | 7% |
|  | Carry out occasional undergraduate supervision, demonstrating or lecturing duties within own area of expertise, under the direct guidance of a member of departmental academic staff. | 2 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 1% |

| Internal and external relationships |
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| Direct responsibility to holder of research award or academic supervisor Dr. Bipasha Chakraborty. May have additional reporting and liaison responsibilities to external funding bodies or sponsors.May be asked to serve on a relevant School/Department committee, for example research committee. Collaborators/colleagues in other work areas and institutions. |

| 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 and experience | PhD or equivalent professional qualifications and experience in mathematics/theoretical physics/theoretical computer science/computational scienceDetailed understanding and knowledge of quantum field theories and/or high energy physics and/or quantum computation | PhD in theoretical physicsKnowledge of particle physicsExperience of lattice QCD or numerical simulations of lattice gauge theory Demonstrable independence and originality in researchExperience of working with other physicists organising own research activities to deadlines and quality standards | Degree certificate, publication list, CV, letters of recommendation  |
| Planning and organising | Able to organise own research activities to deadline and quality standards |  | Publication list, CV, letters of recommendation |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address themAble to develop original techniques/methods |  | Publication list, CV, letters of recommendation |
| 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 | Able to contribute to School/Department management and administrative processes | CV, letters of recommendation |
| 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 journals | Work proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes | CV, letters of recommendation |
| Other skills and behaviours | Positive attitude to colleagues and studentsProactive in promoting a working environment that is inclusive and engaging; recognising the value diversity brings.  | Understanding of relevant Health & Safety issues | CV, letters of recommendation |
| Special requirements | Able to attend national and international conferences to present research results |  |  |

**JOB HAZARD ANALYSIS**

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

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| [x]  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. |
| [ ]  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  |  |  |  |
| 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 |  |  |  |
| 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  |  |  |  |