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| Last updated: | 29.5.2020 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow STFC** |
| School/Department: | Mathematical Sciences |
| Faculty: | FSS |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Kostas Skenderis |
| Posts responsible for: | N/A |
| Post base: | Office-based |

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| Job purpose |
| To undertake research in holography, conformal field theory, black holes, amplitudes and related topics.To enhance the research profile of the University by publishing leading research in these areas and disseminating work at international meetings. |

| Key accountabilities/primary responsibilities | % Time |
| --- | --- |
|  | Undertake internationally leading research on the funded project.  | 70% |
|  | Regularly disseminate findings by preparing publication materials for referred journals, presenting results at conferences, or exhibiting work at other appropriate events. | 10% |
|  | Participate in group seminars and workshops; collaborate with research students and other members of the research group. | 10% |
|  | Carry out administrative tasks associated with the research project such as the organisation of research meetings | 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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| Members of the international scientific community, for collaboration and dissemination of results.  |

| Special Requirements |
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| *Applications 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 completion of 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 Theoretical PhysicsDetailed understanding and knowledge of theoretical physics. |  | Assessed in fellowship application |
| Planning and organising | Able to organise own research activities to deadline and quality standards |  | Assessed in fellowship application |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address themAble to develop original techniques/methods |  | Assessed in fellowship 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 |  | Assessed in fellowship application |
| 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 |  | Assessed in fellowship application & interview  |
| Other skills and behaviours | Understanding of relevant Health & Safety issuesPositive attitude to colleagues and students |  | Assessed in fellowship application & interview |
| Special requirements |  |  |  |

**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.** |
| [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  |  |  |  |
| 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  |  |  |  |