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| Last updated: | 26 February 2025 |

**JOB DESCRIPTION**

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| Post title: | **Research Engineer** |
| School/Department: | Electronics and Computer Science |
| Faculty: | FEPS |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Enterprise pathway |
| Posts responsible to: | Dr Heather Packer |
| Posts responsible for: |  |
| Post base: | Office-based |

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| Job purpose |
| To contribute to the successful delivery of enterprise projects under the supervision of a project leader. Consult effectively in own specialism and build client relationships. To undertake leadership, management and engagement activities, contributing to the effective management and administration of Enterprise activities. |

| Key accountabilities/primary responsibilities | % Time |
| --- | --- |
|  | Collaborate with project partners and wider RSE community to establish best practices for software engineering, use of AI tools and principals of open science. | 20 % |
|  | Contribute to further projects that support and develop RSE activities. | 5 % |
|  | Write and edit reports. | 10 % |
|  | Lead design and construct of RSE Survey 2025. Develop tooling to support analysis survey results and software development practices | 50% |
|  | Participate in impact and public engagement activities. | 5 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 10 % |

| Internal and external relationships |
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| Collaborate with colleagues in ECS and other schools relating to research software engineering. Collaborate with external project partners including Software Sustainability Institute and RSE Societies. |

| Special Requirements |
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**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | Detailed understanding and knowledge of FAIR, open and data science principles, and research software.Proficient in Python programming and have experience developing analytical tools. | PhD or equivalent professional qualifications and experience in subjects relating to Data Science, or Computer Science.Experience of running surveys, analysing and disseminating results. Experience in setting up and hosting data on a vm/server. | Evidenced in CV and answers to questions in application |
| Planning and organising | Able to organise own research/ consultancy activities to deadline and quality standards |  |  |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address themAble to develop original techniques/methods |  |  |
| Management and teamwork | Able to supervise work of junior staff, delegating effectivelyAble to contribute to School/Department management and administrative processesWork effectively in a team, understanding the strengths and weaknesses of others to help teamwork development |  |  |
| 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 | Experience with engaging with stakeholders. |  |
| Other skills and behaviours | Positive attitude to colleagues and students |  |  |
| Special requirements | Able to attend national and international conferences to present research resultsAttend policy events in the UK |  |  |

**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  |  |  |  |