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| Last updated: | September 2021 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow in Wellbeing Technology** |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals |
| School/Department: | Electronics and Computer Science |
| Faculty: | Faculty of Engineering and Physical Sciences |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Professor of Computer Science and Human Performance |
| Posts responsible for: | Interns, as required |
| Post base: | Office-based |

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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 personal research related to advancing the mission of the WellthLab and the Health Resilience Interactive Technology Agenda | 20% |
|  | 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. | 20% |
|  | Contribute to the writing of bids for research funding. | 5% |
|  | Investigate models and approaches to test and develop them, including development and testing of software prototypes, deployment studies with participants and so on. | 30% |
|  | Collaborate/work on original research tasks with colleagues in other institutions. | 5% |
|  | 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% |
|  | Supervise the work of junior research staff as assigned. | 5% |
|  | 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. | 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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| Direct responsibility to holder of research award or academic supervisor. 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 a Computing-related discipline eg Computer Science, human-computer interaction, etcFunctional understanding and knowledge of Interaction Design and EvaluationDetailed understanding and knowledge of nodeJS and React (Javascript Library) to enable prototyping and testingExperience with examples of iOS and Android developmentAbility to analyse statistics for data analysis. Using qualitative and quantitative dataFamiliar with the research on Inbodied Interaction to present functional knowledge in examples of how this approach can be used to #makeNormalBetter for all at scale at individual, group and infrastructure.Experience of Health, Wellbeing and/or Inbodied Interaction Design researchExperience in running mixed-method user studies, including data analysisAbility to describe research planAbility to apply inbodied interaction to design an interactive technology | PhD in Human-Computer InteractionUnderstanding and knowledge of health/wellbeing theory, and of digital health/wellbeing interventions, particularly in HCIExperience of MongoDBExperience of Redux (Javascript Library)Experience designing and running in-lab and in-the-wild human participant studies.Teaching at undergraduate level and contributing to teaching at postgraduate levelQualifications in some motor learning activity such as team or individual sport or musical instrument or both. Successful publication record in peer-reviewed journals or conferencesInterest in physiological signal processing from EEG to breathing | Application Form, CV, Interview, project portfolio |
| Planning and organising | Able to organise own research activities to deadline and quality standardsAble to coordinate research and associated deliverables with team’s. Proactive in identifying issues and opportunities for project successes. |  | Application Form, CV, Interview |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address themAble to develop original techniques/methodsWhere there is a knowledge gap, a proactive attitude to address that gap. |  | Application Form, CV, Interview |
| Management and teamwork | Able to supervise work of junior research 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 developmentProactive attitude and approach to engaging with the team.Proactive in developing collaboration |  | Application Form, CV, Interview |
| 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 outcomesInnovating opportunities with the team such as, but not limited to, local and international events such as workshops, panels, summer schools, presentations. |  | Application Form, CV, Interview |
| Other skills and behaviours | Understanding of relevant Health & Safety issuesProactive in promoting a working environment that is inclusive and engaging; recognising the value diversity brings.Interest in the area of work, and in the mission of the Wellthlab.  | Has a regular physical health and motor learning practice, for example from performance on a physical instrument to a regular team sport to parkour – where one is building motor and cognitive skills to refine technique, and problem solve dynamically.  | Application Form, CV, Interview |
| Special requirements | Able to attend national and international conferences to present research results |  | Application Form, CV, Interview |

**JOB HAZARD ANALYSIS**

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

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| [ ] Yes X | 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  |  |  |  |