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| Last updated: | July 11, 2022 |

**JOB DESCRIPTION**

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| Post title: | Research Fellow, Health Interactive Technologies & Design | | |
| Academic Unit/Service: | Electronics & Computer Science | | |
| Faculty: | Faculty of Engineering and Physical Sciences (FEPS) | | |
| Career pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | **Research pathway** | | |
| Posts responsible to: | Principal Investigator | | |
| Posts responsible for: | n/a | | |
| Post base: | **Office-based**/Non Office-based (see job hazard analysis) | | |

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| Job purpose |
| To carry out high quality research in the areas of human computer interaction in line with the plans of the HRIT project. To develop and enact research plans which are consistent with the project’s overall aims. |

| Key accountabilities/primary responsibilities | | % Time |
| --- | --- | --- |
|  | To undertake a range of high quality research activities under supervision of the PI on human computer interaction in the HRIT project (please see project website for more information at <https://wellthlab.soton.ac.uk/>) from development to publication.  Development will include user studies, evaluation, software development, data analysis; publication will include all appropriate fora, from top tier publications to conference and workshop presentations. These activities will be undertaken in consultation with the PI. | 75% |
|  | To assist the PI in carrying out technical, management and administrative tasks including risk assessment of project activities, organisation of project meetings and related documentation; implementation of procedures required to ensure accurate and timely formal reporting, and liaison with funding organisations to ensure the managerial and reporting procedures are fulfilled. To undertake liaison with the project partners to ensure the project’s work plans are fulfilled. | 15% |
|  | To carry out occasional demonstrating within the post holder’s area of expertise and 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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| Perform collaborative research with project partners and international university collaborators.  Present reports to project funders, the management committee and the steering and advisory groups. |

**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 Computer Science: HCI, or can demonstrate their related PhD (completed or just about to complete) will enable delivery of goals of program  Knowledge of experimental design, including statistical methods  Published research in top quality journals and conferences  Has developed software for hardware  Experience of Javascript and react  Knowledge of multi-methods research  Experience of running user studies  Experience of analysing data using statistics | Working knowledge of sensors like EEG; experience with sensor design/UI design  Has developed interactive systems  Has developed mobile applications for iOS/Android  Has working knowledge of / experience with cognitive assessment methods  Experience in motor learning activities such as acoustic instrument performance or team or individual sport  Interest in physiological signal processing from EEG to breathing and/or creating tactile interactions | Application and interview |
| Planning and organising | Excellent organisational and time management skills  Able to organise a range of activities to deadline and quality standards. |  | Application and interview |
| Problem solving and initiative | Good research–based analytical skills  Ability to problem solve effectively  Ability to conduct independent research  Able to develop understanding of complex problems and apply in-depth knowledge to address them. |  | Application and interview |
| Management and teamwork | Ability to work well as part of a team  Works proactively to create solutions  Able to work independently and make appropriate decisions.  Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development. |  | Application and interview |
| Communicating and influencing | Excellent written and verbal communication skills  Evidence of the ability to produce published reports/papers.  Ability to present technical material at conferences and workshops  Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience.  Able to present research results at group meetings and conferences. | Ability to present to research funding bodies | Application and interview |
| Other skills and behaviours | Understanding of relevant Health & Safety issues.  Proactive in promoting a working environment that is inclusive and engaging; recognising the value diversity brings. |  |  |
| Special requirements |  | Has working knowledge of kinesiology and bioenergetics | Application and interview |

**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 (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 |  |  |  |