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| Last updated: | 12/02/2024 |

**JOB DESCRIPTION**

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| Post title: | Research Fellow | | |
| Academic Unit/Service: | School of Health Sciences | | |
| Faculty: | Faculty of Environmental and Life Sciences |  |  |
| Career pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway | | |
| Posts responsible to: | Prof Peter Worsley | | |
| Posts responsible for: | N/A | | |
| Post base: | Office-based/Non-Office-based (see job hazard analysis) | | |

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| Job purpose | | |
| To undertake research in line with the Pressurelab within the Skin Sensing Research Group (SSRG) at the School of Health Sciences, University of Southampton. This will involve a funded research activity from UKRI’ s EPSRC and NIHR, in collaboration with a multi-disciplinary team of academic, industrial, and clinical partners. The post holder will design and conduct a series of experimental trials in our labs located in the Clinical Research Facility at Southampton General Hospital, to optimise the performance of continuous pressure monitoring technology for the assessment of posture, mobility and pressure ulcer risk in community settings. | | |
| Key accountabilities/primary responsibilities | | % Time |
|  | Deliver and coordinate a programme of research allied to the funded EPSRC-NIHR project. Work with principal or co-investigator on projects, responsible for translating original research objectives, and achieving specific research deliverables. Develop and oversee the application of innovative and creative research methodologies and techniques that add to the knowledge/understanding of the impact of heat stress on the health of vulnerable populations. | 60 % |
|  | Develop and sustain a national and international reputation for research and the enhancement of learning and teaching practice by the regular dissemination and explanation of findings through leading peer-reviewed publications, major conferences, or exhibiting work at other appropriate events. Engage in external academic activities in accordance with the Faculty of Environmental and Life Sciences’ research strategy in Engineering Better Health and which enhance the School of Health Sciences national/international research profile, e.g. membership of committees of academic bodies, external examining, journal editorships, etc. | 15 % |
|  | Manage administrative tasks associated with specified research funding, including risk assessment of programme activities, leading project meetings and preparation of annual reports. Management of procedures required to ensure accurate and timely formal reporting and financial control. | 10 % |
|  | Contribute to the mentoring of PhD, Masters and BSc students allied to the research activity and SSRG agenda. | 5 % |
|  | Contribute to the efficient management and administration of the School/Department by performing personal administrative duties as allocated by the principle investigator. | 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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| Member of School of Health Sciences committees relevant to their administrative duties.  Collaborators and colleagues in other work areas and institutions, academic, health and social care providers, commercial and third sector stakeholders engaged in delivery of research. |

| Special Requirements |
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| *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 Bioengineering, electronics OR related field  An emerging national and/or international reputation in the field of bioengineering, data science and Health research  Experience in the following:   * Human volunteer studies | Published research  Experience in any of the following:   * Clinical studies with patient volunteers * Healthcare OR consumer product technologies, bioengineering * Lab and bench testing of medical devices OR consumer products (e.g. garments)   Involvement in national and international events | CV / Interview |
| Planning and organising | Proven ability to plan and shape the direction of an area of bioengineering OR applied electronic engineering, ensuring plans complement broader research strategy  Proven ability to develop innovative research proposals and experimental studies | Ability to attract research funding with the Thermoregulation OR Climate & Health research theme. | CV / Interview |
| Problem solving and initiative | Able to develop significant new concepts and original ideas within own field in response to issues of importance to the research area of bioengineering and sensing.  Able to identify pathways for translation of research into impact for society | Evidence of knowledge exchange and enterprise with key non-academic stakeholders | CV / Interview |
| Management and teamwork | Able to foster and develop good relationships between the School of Health Sciences and the rest of the university. Able to work proactively with senior colleagues to develop cross-School/Department and institution cooperation and effectiveness  Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development | Able to monitor and manage resources and budgets | CV / Interview |
| Communicating and influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience  Track record of presenting research results at group meetings and conferences  Able to persuade and influence at all levels in order to foster and maintain relationships, resolving tensions/difficulties as they arise | Able to provide expert guidance to colleagues in own team, other work areas and institutions to develop understanding and resolve complex problems  Able to develop and lead key communications strategies | CV / Interview |
| Other skills and behaviours | Compliance with relevant Health & Safety issues  Positive attitude to colleagues and students |  | CV / Interview |
| Special requirements | Able to attend national and international conferences to present research results |  | CV / 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 |  | X |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: |  | X |  |
| Frequent hand washing | X |  |  |
| 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 |  | X |  |
| Lone working | X |  |  |
| ## Shift work/night work/on call duties |  |  |  |