

Position / Job Title:	Post Doctoral Research Assistant (for modelling and 3D printing of mobile phone attachments)(Fixed-Term)
Ref:	FST409/ POSN102020
Faculty/Professional Service:	Faculty of Science & Technology
Group/Section:	Design & Engineering
Duration if temporary:	Fixed term for 12 months
Normal hours per week:	1 FTE (Some flexibility will be required in order to ensure that key time scales and deadlines are met).
Grade:	6
Accountable to:	Professor of Medical Robotics

Job Purpose

In the context of Bournemouth University 2025 vision and strategy centred on Health & Wellbeing and Digital & Technological Futures, applications are invited for a Research Assistant to work on an NIHR funded innovation project. The post-holder will be expected to produce small components of defined shapes on 3D printing machines for neuropathy assessment.

Main Responsibilities

The post holder will undertake research and technical development of attachments to mobile phones as 3D printed parts for neuropathy assessment. The post holder will be responsible for modelling innovative attachments of different shape and complexity that can alter the vibration characteristics of mobile phones transmitting as a probe. This will require knowledge of 3D modelling on relevant software and experience of 3D printing to match the attachment variations. This will also require good modelling skills such as experience with Solidworks, 3D scanning of shapes as well as 3D printing. The postholder will also be responsible for producing printed parts and liaising with project/business partners and clinicians across the team and to be involved in project management and dissemination of findings. The post holder will be expected to have relevant experience in software modelling, mechanical/electronics engineering with relevant technical skills. Experience of working in a multi-disciplinary team with experimental aptitude would be an added advantage. Contribute to the design and delivery of education activities in related subject areas. Supervise under/postgraduate students' projects, fieldwork, lab work, placements as appropriate.

Key Objectives:

- Work within a team and effectively support the technical development of the project
- Develop attachment probes for different mobile phones using 3D technology
- Design, model and print parts on 3D printing machines and test their functionality
- Attend research meetings and project management meetings
- Disseminate research findings through public engagements and joint publications

Project management

- Assist the management of the project and communicate effectively with project team and partner organisations
- Liaise with project partners across hospitals and industrial partners
- Work with stakeholders from the Healthcare sector and user community
- Comply with General Data Protection Regulation, Research Governance and guidelines.

Information Governance Responsibilities

Data User

- i. Comply with the associated data protection, information security, information management and information technology regulations, policies, processes and procedures.

Additional Information

NB:

The purpose of the job description is to indicate the general level of responsibility and location of the position. The duties may vary from time to time without changing their general character or level of responsibility.

BU is an equal opportunities employer which values a diverse workforce. The post holder must at all times carry out their responsibilities with due regard to the University's Dignity, Diversity and Equality Policy Statement.

Our highly skilled and creative workforce is comprised of individuals drawn from a broad cross section of the globe, and who reflect a variety of backgrounds, talents, perspectives and experiences to build our global learning community. Through fused activity, the post holder must have an understanding of and commitment to promoting a global outlook.

All employees have an obligation to be aware of and comply with the Universities Sustainability Policy, Climate and Ecological Crisis Action Plan and associated documents, and to ensure that whilst at work that they demonstrate the adoption of sustainable habits or practices and carry out their day-today activities in an environmentally responsible manner.

April 2021



Person Specification

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Faculty / Service: Science & Technology	Date: April 2021
SELECTION CRITERIA	Essential / Desirable
Knowledge (including experience & qualifications)	
Degree (BSc/Masters) in Engineering, Computer Science or other relevant area or equivalent	E
Experience of modelling on commercial software and 3D printing	E
PhD in any engineering discipline	D
Knowledge of Android and iOS programming	D
Knowledge of web development	D
Skills	
Excellent knowledge of modelling and 3D printing	E
Programming skills in C/C++ or C# or python or java	D
Experience of writing high quality reports	D
Attributes	
Motivated and enthusiastic	E
Good attention to detail and high standards in all aspects of work	E
Ability to work independently and within a multidisciplinary team	E
Ability to work effectively with a wide range of colleagues	E
Ability to multi-task and prioritise different task demands	E