Research Assistant – In Medical Devices

Department	Biomedical Engineering (www.strath.ac.uk/engineering/biomedicalengineering/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Research	Reference No	665043
Reports To	Professor Will Shu	Grade:	6
Salary Range:	£32296- £35880	Contract Type:	Fixed Term (31 March 2025)
FTE	0.5 (17.5 hours/week)	Closing Date	22/11/2024

Job Advert

Biomedical Engineer-Research Assistant in Medical Devices

The Department of Biomedical Engineering is looking to employ a Biomedical research engineer to work on the development of implantable biomaterials. The Research Assistant (RA) will participate in activities to support the efforts of an industrial funded project, working on the development of biomaterials suitable for medical implantation.

As a Research Assistant, you will assist in the delivery of the research objectives, proposals and activities as part of a team, working under the general supervision of senior colleagues. You will conduct literature reviews, develop questionnaires, conduct surveys, collect and collate data, and undertake and record the outcomes of experiments. You will manage and prioritise your own workload and ensure that all activities are completed to deadlines, and you will write up the results of your own research and contribute to the production of research reports and publications, an identify sources of funding, and contribute to securing of funds for research. You will input as a team member to administrative activities and assist, where required, with relevant teaching and knowledge exchange activities.

To be considered for the role, you will be educated to a minimum of MSc level in physical, Biomedical or Materials Engineering or other relevant subject, and you will have sufficient breadth or depth of knowledge in in bioprinting and a developing ability to conduct individual research work, to disseminate results and to prepare research proposals. You will have knowledge of appropriate research methods, have an ability to plan and prioritise your own workload, with general supervision, and you will have an ability to work within a team environment. You will have excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

As a Research Assistant for this role, will apply their knowledge of biology, engineering and biomedical standards to convert scientific and technical innovation into clinical applications. The candidate will participate in the engineering and technical development of new tissue engineered constructs by carrying out design, development, testing and producing appropriate documentation.

Whilst not essential for the role, applications are welcomed from candidates with: a higher Degree in a relevant discipline, some relevant work experience, membership/working towards membership of a relevant Chartered/professional body (including the Higher Education Academy), experience of relevant student supervision and teaching activities and experience of knowledge exchange related activities.

Job Description

Brief Outline of Job:

To assist in the delivery of research activities as part of a team, working on an established research programme/s under the general supervision of senior colleagues; to input as a team member to administrative activities; to assist where required with relevant teaching and knowledge exchange activities.

Main Activities/Responsibilities:

1.	Assist the delivery of research projects in bioprinting techniques to produce scaffolds by, for example, conducting literature reviews, developing questionnaires and conducting surveys, collecting and collating data and undertaking and recording the outcomes of experiments.
2.	Your research projects will relate to bioprinting techniques to produce scaffolds, the upgrading and development of bioprinters and printing processes, and the mechanical and biological characterisation of bioprinted materials.
3.	Manage and prioritise own workload within agreed objectives to ensure that all activities are completed to deadlines.
4.	Write up results of own research and contribute to the production of research reports and publications.
5.	Contribute to the planning of research programmes.
6.	Assist with professional and knowledge exchange activities as required.
7.	Assist with the supervision of student projects and the delivery of introductory classes as required.
8.	Input as a team member to Department/School, Faculty and/or University administrative activities.
9.	Engage in continuous professional development.
10.	Involved in the day-to-day responsibilities of running a lab

Person Specification

Educational and/or Professional Qualifications (E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)	
E1	MSc or equivalent in Physical, Biomedical or Materials Engineering or other relevant subject.
D1	Membership/working towards membership of relevant Chartered/professional bodies (including Higher Education Academy).
Experience	
E2	Sufficient breadth or depth of knowledge in the relevant discipline/s to effectively contribute to the research programme/s.
E3	Experience of working with 3D bioprinting
E4	Experience of material characterisation, both engineering and biological
D2	Strong knowledge of gelatine and collagen
D3	Experience of relevant student supervision and teaching activities.
Job Related Skills and Achievements	
E5	Extensive knowledge of additive manufacturing particularly 3D printing and 3D bioprinting tools, methods and techniques
E6	Knowledge of appropriate research methods.
E7	Ability to plan and organise own workload effectively with general supervision from senior colleagues.
E8	Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

E9	Good IT skills
E10	Proficiency with Solidworks / ProE / AutoCAD or equivalent
E11	Ability to work within a team environment.
E12	Experience of knowledge exchange related activities.
Personal Attributes	
E13	Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (http://www.strath.ac.uk/hr/workforus).

Informal enquiries about the post can be directed to Will Shu, Professor (will.shu@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to the Research staff category can be found at: Conditions of Employment.

Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found here.

Probation

Where applicable, the successful applicant will be required to serve a 9 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from Payroll and Pensions.

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Equality and Diversity

The University of Strathclyde is a socially progressive institution that strives to ensure equality of opportunity and celebrates the diversity of its student and staff community. Strathclyde is people-oriented and collaborative, offering a supportive and flexible working culture with a deep commitment to our equality, diversity and inclusion charters, initiatives, groups and networks.

We strongly encourage applications from Black, Asian and minority ethnicity, women, LGBT+, and disabled candidates and candidates from lower socio-economic groups and care-experienced backgrounds.

University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. Our Values have been derived from how we act and how we expect to be treated as part of Strathclyde.