

Candidate Information

Position:	Research Assistant
School/Department:	Pharmacy
Reference:	22/110160
Closing Date:	Monday 26 September 2022
Salary:	£29,619 - £34,308 per annum
Anticipated Interview Date:	Monday 10 October 2022
Duration:	12 months

JOB PURPOSE:

To assist the research team to develop and characterise drug loaded implantable devices to treat cardiovascular disease.

MAJOR DUTIES:

1. Design, develop, prepare and fully evaluate 3D-printed vascular prostheses/implants.
2. Prepare documentation for meetings with regulatory authorities, industrial and clinical partners.
3. Design, develop and refine experimental apparatus and analytical methods in order to obtain reliable data.
4. Carry out in vitro drug release experiments, analyses, critical evaluations, and interpretations using appropriate methodologies and techniques. Such techniques will include high performance liquid chromatography, ultraviolet and fluorescence spectroscopy.
5. Contribute to improving existing experimental protocols and introducing new techniques as required in order to obtain reliable data.
6. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
7. Write up results of own work and contribute to the production of research reports, publications and funding proposals.
8. Carry out occasional undergraduate supervision/demonstrating/teaching duties under the direction of a member of academic staff.
9. Carry out routine administrative duties associated with the research project to ensure activities are completed on time and within budget. These may include organisation of project documentation, financial control and risk assessment of activities.
10. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

ESSENTIAL CRITERIA:

1. Hold a degree in Pharmacy or equivalent qualification and a MSc degree in Pharmaceutics or equivalent qualification.
2. At least 1 years recent relevant research experience to include experience in pharmaceutical analysis, including HPLC.
3. Experience of design and manufacture of drug loaded medical devices.
4. Experience of 3D-printing of medical devices.
5. Williness to assist early career researchers to establish core assay technical competence.
6. Ability to carry out routine administrative tasks associated with the research projects and laboratory maintenance.
7. Ability to communicate complex information clearly both verbally and written.
8. Analytical and problem solving skills.
9. Knowledge of scientific literature pertaining to long-acting delivery systems.
10. Ability to present scientific arguments and data in a clear, concise and confident manner.
11. Ability to present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
12. Ability to work independently and on own initiative.
13. Ability to work collaboratively and effectively as part of a team.
14. Ability to act decisively and confidently.

DESIRABLE CRITERIA:

1. Previous experience on mechanical testing of biomaterials.