



## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	Pharmacy
<b>Reference:</b>	23/111444
<b>Closing Date:</b>	Monday 18 December 2023
<b>Salary:</b>	£37,841 per annum
<b>Anticipated Interview Date:</b>	Monday 15 January 2024
<b>Duration:</b>	Fixed term for 12 months

### JOB PURPOSE:

To be an active member of the research team assisting in the development and pre-clinical and industrial translation of novel engineered microarray patch delivery systems. To assist in the planning and delivery of this research activity so that the overall research objectives of the project are met.

### MAJOR DUTIES:

1. Design, develop, prepare and fully evaluate engineered microneedle systems.
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 vivo animal experiments, analyses, critical evaluations, and interpretations using appropriate methodologies and techniques. Such techniques will include high performance liquid chromatography, mass spectrometry, ultraviolet and fluorescence spectroscopy.
5. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
6. Prepare, in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
7. Assist supervisor in the preparation of funding proposals, submissions to pharmaceutical/medical devices companies and applications to external bodies.
8. Carry out routine administrative tasks associated with the research project to ensure that the project is completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
9. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
10. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

### ESSENTIAL CRITERIA:

1. Applicants must have a degree in Pharmacy, Chemical Engineering, Mechanical Engineering or a closely-related discipline (Minimum standard 2.1).
2. Have, or about to obtain, a PhD in engineering/drug delivery/pharmaceutics.
3. Experience of design and manufacture of engineered drug delivery systems or medical devices.
4. Significant recent and relevant research experience.
5. A record of publication in high quality, peer-reviewed, journals commensurate with experience.
6. Ability to contribute to administrative relevant to the research.
7. Liaison with external collaborators and sponsors.
8. Practical problem-solving skills, independence of thought and initiative are required.
9. Ability to present scientific arguments and data in a clear, concise and confident manner in both written and oral formats.
10. A calm and conscientious scientist, able to work in a disciplined manner within a team environment.

**DESIRABLE CRITERIA:**

1. Recent, relevant, experience in pharmaceutical analysis, including HPLC.
2. Knowledge of mass spectrometric detection as used in combination with HPLC Experience of formulation science.
3. Experience of conducting in vivo animal experiments to evaluate dosage forms.
4. A UK certificate in animal handling.