

Candidate Information

Position:	Research Assistant - Hydrogel-forming Microneedle Delivery Systems
School/Department:	Pharmacy
Reference:	21/108794
Closing Date:	Monday 17 May 2021
Salary:	£28,331- £32,817 per annum
Anticipated Interview Date:	Friday 28 May 2021
Duration:	Until 30 June 2022

JOB PURPOSE:

To assist the research team to develop and characterised hydrogel-forming microneedle delivery systems.

MAJOR DUTIES:

- 1. Design, develop, prepare and fully evaluate hydrogel-forming microneedles.
- 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. 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.

Planning and Organising:

- 1. Plan own day-to-day activities within the framework of the agreed research programme.
- 2. Contribute to the planning of research projects, reports, conference presentations, publications etc. usually up to one year in advance.

Resource Management Responsibilities:

- 1. Ensure research resources are used in the most effective and efficient manner.
- 2. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

- 1. Liaise on a regular basis with colleagues and students. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration. Join external networks to share information and ideas.
- 2. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.

ESSENTIAL CRITERIA:

1. *Hold a degree in Pharmacy or equivalent qualification.

- 2. *At least 1 years recent relevant research experience to include, recent, relevant, experience in pharmaceutical analysis, including HPLC.
- 3. *Experience of design and manufacture of hydrogel-forming microneedles.
- 4. *Previous experience working on a research project funded by an industrial partner.
- 5. Willingness 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. A UK certificate in animal handling.
- 2. Experience in patient-facing aspects of pharmacy.
- 3. Experience of conducting in vivo animal experiments to evaluate dosage forms.