

## Candidate Information

**Position:** Research Fellow  
**School/Department:** School of Pharmacy  
**Reference:** 22/110557  
**Closing Date:** Monday 6 February 2023  
**Salary:** £35,333 per annum  
**Anticipated Interview Date:** Monday 20 February 2023  
**Duration:** Fixed term for 12 months

### JOB PURPOSE:

To be an active member of the Pharmaceutical Engineering research team assisting in the preclinical development of film-coated multiple unit systems, for oral administered sustained release drug delivery. To assist in the planning and delivery of research activity so that the overall research objectives of the project are met.

### MAJOR DUTIES:

1. Develop and execute research plans in the remit of the project and with the aid of the project PI.
2. Design, develop and refine formulations, processing (coating) parameters and analytical methodologies in order to obtain reliable data.
3. Present project progress, on an agreed periodic basis, to the funders of the project and members of the research team, in the agreed reporting formats.
4. Prepare documentation for meetings with any required internal and external collaborators.
5. Communicate to external audiences to disseminate and publicise research findings. For example, prepare, often in consultation with supervisors, material for publication in highly ranked, reputable scientific journals, as well as for presentations (both poster and oral) at national/international conferences.
6. Assist supervisors in the preparation of funding proposals and applications to external bodies.
7. Plan for, and seek agreement with the PI, specific aspects of research programmes, preferably with the assistance of a project scheduling tool, e.g. Gantt chart, with timescales ranging from 1-3 months in advance. Contribute to research group planning.
8. Plan for the use of research resources, laboratories and workshops where appropriate.
9. Plan own day-to-day activities within framework of the agreed research programme.
10. Plan up to 6 months in advance to meet deadlines for journal publications and to prepare posters, presentations and/or papers for conferences.
11. 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.
12. Assist in the establishment of external cross-sector knowledge-related collaborations and networking, to share information and ideas.
13. 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.
14. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the grant holder's area of expertise and under the direct guidance of a member of academic staff.
15. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines. Develop a literature base.
16. Ensure research resources are used in an effective and efficient manner.
17. Provide guidance as required to support staff and any students who may be assisting with research.

### ESSENTIAL CRITERIA:

1. A Degree in Pharmacy, Pharmaceutics, Pharmaceutical Science, Pharmaceutical Engineering, or a closely-related discipline (Minimum standard 2.1).
2. Have, or about to obtain, a PhD in Pharmaceutical Sciences, Pharmaceutics, Pharmaceutical Technology, Pharmaceutical Engineering, or a closely-related discipline.
3. Minimum of three years' recent relevant research experience.
4. Recent, relevant, experience in formulation development, pharmaceutical analysis (including thermal analyses, spectroscopic analyses, drug dissolution studies, HPLC).
5. Experience of preparing materials for publication in international scientific journals.
6. Experience of preparing materials for dissemination at national and/or international conferences.
7. Ability to contribute to administrative tasks relevant to the research.
8. Coordination with other members of the research group to facilitate progress of work.
9. Liaison with external collaborators and sponsors.
10. Practical problem-solving skills, independence of thought and initiative are required.
11. Ability to present scientific arguments and data in a clear, concise and confident manner in both written and oral formats.
12. Able to work in a disciplined manner within a team environment.
13. Be able to start as soon as possible.

**DESIRABLE CRITERIA:**

1. PhD with specific emphasis on pharmaceutical coating technology.
2. Knowledge or experience of oral solid dosage forms and their in-vitro characterisations.
3. Knowledge or experience of pharmaceutical coating, in particular, coating on multiunit particulates/pellets.
4. Knowledge or experience of using Innojet Aircoaters.
5. Knowledge or experience tablet compression.
6. Knowledge or experience of using DMTA, texture analyser, diffusion cell test system.
7. Knowledge of chemometrics and experience of using multivariate data analysis tools.
8. Experience and/or success in funding applications to external bodies.
9. Experience of research resources allocation, laboratory management and/or workshops coordination where appropriate.
10. Experience of supervising UG or PG students and managing small projects.