Candidate Information

Position:	Research Fellow
School/Department:	School of Pharmacy
Reference:	23/110795
Closing Date:	Monday 24 April 2023
Salary:	£36,333 per annum
Anticipated Interview Date:	Friday 12 May 2023
Duration:	Fixed Term 12 Months

JOB PURPOSE:

We seek a passionate and dedicated Research Fellow to join our team and tackle the essential medicine global supply shortages (funded by Medical Research Council). You are expected to be an active member of the research project/team, assisting in the planning and delivering the research activities. Within the research network, you will also be exposed to activities on animal disease validations and regulation compliance by leading experts from the University of Liverpool, London School of Hygiene and Tropical Medicine and DNDi.

MAJOR DUTIES:

1. Develop and plan research and expertise for liposomal nanoparticles, and undertake research activities under supervision for antifungal treatments.
2. Design, develop and refine experimental processes to obtain reliable and repeatable data.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to the area of research, e.g., regulatory guidelines.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Prepare material for publication in national and international journals and presentations at international conferences, often in consultation with the supervisor.
6. Assist in the preparation of proposals and applications to external funding bodies.
7. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include the organisation of project meetings and documentation, financial control, and risk assessment of research activities.
8. Work independently and as part of a team as required.
9. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within the post holder’s area of expertise.
10. Read academic papers, journals and textbooks to keep abreast of developments in your specialism and related disciplines.

ESSENTIAL CRITERIA:

1. Normally have or be about to obtain a relevant PhD.
2. At least three years of relevant research experience, including production and characterisation techniques.
3. Extensive practical experience in using combinatory techniques to assess the quality of liposomal formulations, including LC-MS, HPLC etc.
4. Some practical experience in applying specific skills and techniques for in vitro and in vivo characterisation of nanoformulation, such as hemolysis assay.
5. Ability to contribute to broader management and administrative processes.
6. Time management and planning.
7. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
8. Ability to communicate complex information clearly.
9. Ability to build contacts and participate in internal and external networks.

10. Demonstrable intellectual ability and dedication on a given project.

DESIRABLE CRITERIA:

1. PhD
2. Hands-on experience in continuous processing techniques for producing nanoformulations, e.g., microfluidics and twin-screw extrusion.
3. Proficient user of multivariate data analysis methods, including DoE, PLS, and PCA.