



## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	School of Pharmacy
<b>Reference:</b>	24/111717
<b>Closing Date:</b>	Monday 8 April 2024
<b>Salary:</b>	£37,841 per annum
<b>Anticipated Interview Date:</b>	Wednesday 24 April 2024
<b>Duration:</b>	Available for 12 months or until 31 May 2025, whichever is sooner

### 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 around analytical method development and in vitro/in vivo pharmacokinetics of liposomal antifungal nanomedicines.

Within the research network, you will also be involved in 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. Work independently and as part of a team as required.
2. Develop and plan research for liposomal nanoparticles, and undertake research activities under supervision for in vivo studies.
3. Evaluating the characteristics of the developed amphotericin B liposomal formulations and analysing biological samples using LC and MS.
4. Design, develop and refine in vivo experimental processes to obtain reliable and repeatable data.
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 and drive material for publication in national and international journals and presentations at international conferences, often in consultation with the supervisor.
7. Assist in the preparation of proposals and applications to external funding bodies.
8. 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.
9. Read academic papers, journals and textbooks to keep abreast of developments in your specialism and related disciplines.
10. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to the area of research, e.g., Method development and validation.

### ESSENTIAL CRITERIA:

1. Have or be about to obtain\* a relevant PhD in the areas of nanomedicine, liposomal formulations and PK/PD.  
(\*must be obtained within 3 months of commencement of employment)
2. Recent hands-on research experience of pharmacokinetics and biodistribution of a small molecule drug or liposomal nanoparticles following systemic administration.
3. Experience of development analytical methods for biological samples, e.g. LC-MS.
4. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
5. Ability to communicate complex information clearly.
6. Ability to build contacts and participate in internal and external networks.

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

**DESIRABLE CRITERIA:**

1. A PhD.
2. Extensive experience working with nanomedicines and animal models.
3. Hold a Personal animal license.
4. Proficient user of multivariate data analysis methods.