

Candidate Information

Position:	Research Assistant
School/Department:	School of Pharmacy
Reference:	22/110502
Closing Date:	Monday 9 January 2023
Salary:	£29,619 per annum
Anticipated Interview Date:	Thursday 19 January 2023
Duration:	Fixed term for 12 months

JOB PURPOSE:

To assist the research team to formulate and characterise lipid nanoparticles for nucleic acid/drug delivery.

MAJOR DUTIES:

1. Design and prepare a range of ionisable lipid nanoparticles using microfluidics.
2. Carry out extensive nanoparticle characterisation using appropriate techniques. Such techniques include dynamic light scattering, fluorescence spectroscopy, and gel electrophoresis.
3. Read academic papers, journals and textbooks to keep abreast of developments.
4. Present regular progress reports on research to members of the research group or external audiences to disseminate and publicise research findings.
5. Work independently and as part of a team as required.
6. Contribute to the supervision of undergraduate and postgraduate students.
7. Coach and support colleagues in developing their research techniques.
8. Develop productive working relationships with other members of staff and students internally and with external collaborators.
9. 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 the organisation of project meetings and documentation, financial control, and risk assessment of research activities.
10. Use and maintenance of laboratory equipment as required.
11. Carry out any other tasks as specified by the project supervisor in accordance with the grading of the post.

ESSENTIAL CRITERIA:

1. Degree or equivalent in Pharmacy.
2. At least 1 year of recent relevant research experience in liposome formulation and characterisation using microfluidics.
3. Some practical experience of applying specialist skills and techniques required for the role.
4. Sufficient breadth or depth of specialist knowledge in the discipline and of research methods and techniques to work within own area.
5. Ability to contribute to method improvement where required.
6. Knowledge of scientific literature related to ionisable lipid nanoparticles for gene/drug delivery.
7. Ability to present scientific arguments and data clearly, concisely and confidently.
8. Ability to present regular progress reports on research to members of the research group or external audiences to disseminate and publicise research findings.
9. Ability to carry out routine administrative tasks associated with research projects and laboratory maintenance.
10. Ability to communicate complex information clearly, both verbally and written.
11. Analytical and problem-solving skills.
12. Ability to interact with research colleagues and support staff.
13. Ability to analyse and communicate effectively.
14. Willingness to assist early career researchers in establishing core assay technical competence.
15. Ability to work independently and on own initiative.

16. Ability to work collaboratively and effectively as part of a team.
17. Ability to act decisively and confidently.
18. Demonstrable intellectual ability.

DESIRABLE CRITERIA:

1. MSc degree in Pharmaceutics.