Candidate Information

Position:	Research Assistant
School/Department:	School of Pharmacy
Reference:	25/112830
Closing Date:	Monday 15 September 2025
Salary:	£35,136 per annum
Anticipated Interview Date:	Monday 29 September 2025
Duration:	Fixed term available for 7 months

JOB PURPOSE:

We seek a dynamic researcher to join our team in advancing the development and preclinical-to-industrial translation of innovative drug delivery systems drove by emerging technologies. The successful candidate will play a key role in fabricating bioprinted multilayer scaffolds designed for cutting-edge drug delivery systems designed for tissue engineering applications.

MAJOR DUTIES:

1. Assist in the development and optimization of a multi-layered drug-loaded bioprinted scaffold.
2. Optimize scaffold design to enable controlled and sustained release of Active Pharmaceutical Ingredients (APIs), with a particular focus on biologically active molecules.
3. Conduct in vitro testing to evaluate the survival and functionality of the scaffolds.
4. Perform relevant analyses of the scaffolds using tools such as rheology, texture analysers, spectroscopic and Thermodynamic methods.
5. Prepare sterile specimens using appropriate sterilization techniques tailored to the material properties, ensuring their compatibility and safety for in vivo studies.
6. Keep track of the current literature in the field and write a comprehensive review paper before the end of the project.
7. Engage in the dissemination of the research in regular group and consortium meetings.
8. Perform routine administrative tasks related to the research project to ensure timely completion of milestones and adherence to budget constraints.
9. Perform additional tasks assigned by the line manager that align with the scope of the role.

ESSENTIAL CRITERIA:

1. Hold 1st class degree in Pharmacy, Pharmaceutical or Biological Sciences, Chemical Engineering, or a closely related discipline.
2. Recent and relevant research experience to include the following:
   - Experience of design and manufacture of drug delivery systems or medical devices.
   - Experience in the characterisation of polymeric drug delivery systems (including thermal analysis, XRD, FTIR, Texture analysis, SEM, etc.).
   - Knowledge of extrusion 3D-printing in pharmaceutical manufacturing.
3. Authorship of at least one research manuscript as first author, published in internationally recognised peer-reviewed journal in the last 10-months.
4. Ability to contribute to administrative relevant to the research.
5. Excellent record-keeping skills, and evidence of a well-kept notebooks.
6. Familiar in in vitro studies.
7. Proficient in applying statistical methods and tools for analysing in vitro or and in vivo data.
8. Capable of conveying scientific arguments and data clearly, concisely, and confidently.
9. Skilled in delivering regular progress reports to research groups and external audiences, effectively sharing and publicizing research findings.
10. Practical problem-solving skills, independence of thought and initiative are required.

11. Capable of assessing, organizing, and optimizing resources to support research activities.
12. Ability to present scientific arguments and data in a clear, concise and confident manner in both written and oral formats.
13. A calm, conscientious, and disciplined scientist who thrives in a collaborative team environment.
14. Willing and eligible to undertake international research visits to designated partner institutions, with each trip ranging from 2 to 6 weeks.
15. Conditions of the grant stipulate that the postholder will be required to travel to the collaborator in Egypt for a period of 4–6 weeks. Applicants must be able to meet this requirement in line with the guidelines outlined at Visas – Egypt Consulate UK.

DESIRABLE CRITERIA:

1. Postgraduate qualification in Drug Delivery, Pharmaceutical Technologies, Pharmaceutical Engineering or a closely related discipline.
2. 1-year relevant research experience.
3. Recent, relevant, experience in pharmaceutical analysis, including HPLC.
4. Experience in presenting at national and international conferences.
5. Experience in research project management.
6. Experience using electronic lab books.
7. Long-term and well-defined career goals.