



UNIVERSITY OF  
LINCOLN

## UNIVERSITY OF LINCOLN JOB DESCRIPTION

<b>JOB TITLE</b>	Early Stage Researcher			
<b>DEPARTMENT</b>	School of Pharmacy			
<b>LOCATION</b>	Joseph Banks Laboratory, Brayford Camps			
<b>JOB NUMBER</b>	COS802	<b>GRADE</b>	7	<b>DATE</b> December 2020
<b>REPORTS TO</b>	Dr. Christy Hunter			

### CONTEXT

<Note. A grade 7 researcher post should normally be a Post Doctoral Research Associate (PDRA). The Research Associate equivalent (RAss) may be used in rare circumstances where the nature of the project requires hiring a grade 7 researcher who does not have a PhD (e.g. because there is a strong practice-based element, and PhD qualified candidates are rare in the research domain or are part of a Maria Sklodowska Curie training network as an Early Stage Researcher, ESR). Other than the expectation of possession of a PhD and the job title, PDRA and RAss positions are entirely equivalent.>

### JOB PURPOSE

The Early Stage Researcher is responsible for conducting research on the project, as directed by the Principal Investigator, and is expected to operate with a significant degree of autonomy. S/he is not expected to operate as an independent researcher.

The post holder may be required to help supervise the work of more junior researchers.

The ESR will be expected to go on training secondments in the UK and Europe

## KEY RESPONSIBILITIES

Literature Surveys
Undertake literature surveys and other investigations of the state-of-the-art, and prepare reports as required.
Programme of Research
Undertake a programme of research under the direction of the Principal Investigator, demonstrating a significant level of autonomy.  Lead in the production of high quality research outputs, including reports, papers and other publications of national/international standing.  Production of monthly reports for the funding body
Project Management
Perform project management activities, planning, scheduling, monitoring and reporting on progress of research projects.
Liaison and Networking
Identify and liaise with internal and external collaborators, and with colleagues in the Department, maintaining positive and effective working relationships.
Internal Research Activities
Participate in and help to organise internal research activities, including seminars, research meetings and conferences.
Continuous Professional Development
Undertake continuous professional development activities.
Grant Applications
Contribute to the production of grant applications.
Teaching Support
Engage in teaching support activities, up to a maximum of six hours per week, possibly including leading a small number of units (no more than two per annum).

**In addition to the above, undertake such duties as may reasonably be requested and that are commensurate with the nature and grade of the post.**

## ADDITIONAL INFORMATION

### Scope and dimensions of the role

This project will apply green chemical synthesis, using microorganisms, to functionalise hormones generating novel complement recognition inhibitors to improve stealth characteristics of liposomes. Design of these inhibitors will involve in silico modeling to determine the optimal design of liposome-complement protein interaction inhibitors. Physical interactions, as well as structure of the inhibitors will be assessed by a range of techniques including Nuclear Magnetic Resonance (NMR), Differential Scanning Calorimetry (DSC), Dynamic Light Scattering (DLS) and Scanning Electron Microscopy (SEM). The immunological assessment of the inhibitors will be tested in using ELIZA complement assay system.

### Key working relationships/networks

Internal	External
<ul style="list-style-type: none"><li>• Principal Investigator</li><li>• Head of Research Centre</li><li>• Head of School</li><li>• Other research and academic staff within the school</li></ul>	<ul style="list-style-type: none"><li>• Research collaborators</li><li>• Sponsors and clients</li></ul>



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## UNIVERSITY OF LINCOLN PERSON SPECIFICATION

<b>JOB TITLE</b>	Early Stage Researcher	<b>JOB NUMBER</b>	COS802
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Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)
<b>Qualifications:</b>		
MPhil or equivalent	E	A
Extensive knowledge specific to project/area	E	A/I
<b>Experience:</b>		
Extensive experience of relevant research methods	E	A/I
Authorship of research outputs of national/international standing	E	A/I
Experience of research in specific project area	E	A/I
Teaching support	D	A/I
<b>Skills and Knowledge:</b>		
Ability to design, conduct and project manage original research in the subject area	E	A/I
Excellent written communication, including the ability to write reports and research outputs	E	A/I
Ability to prioritise own workload and work to specified deadlines under pressure	E	A/I
Ability to communicate complex subjects orally	E	A/I
Skills specific to project/area	E	A/I
<b>Competencies and Personal Attributes:</b>		
Flexible approach to workload	E	I
Ability to work on own and as part of a team	E	I
Enthusiasm and commitment	E	I
<b>Business Requirements:</b>		

**Essential Requirements** are those, without which, a candidate would not be able to do the job. **Desirable Requirements** are those which would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

<b>Author</b>	CH	<b>HRBA</b>	DB
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