

## Candidate Information

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| <b>Position:</b>                   | Research Fellow   |
| <b>School/Department:</b>          | School of Pharmacy                                      |
| <b>Reference:</b>                  | 23/111527   |
| <b>Closing Date:</b>               | Monday 5 February 2024                                  |
| <b>Salary:</b>                     | £37,841 - £41,331 per annum                             |
| <b>Anticipated Interview Date:</b> | Thursday 15 February 2024                               |
| <b>Duration:</b>                   | 12 months or until 31 January 2025, whichever is sooner |

### JOB PURPOSE:

To further refine a screening cascade for the identification of protease inhibitors by optimising protease protein expression and developing several assays to identify and exclude nonspecific compounds.

### MAJOR DUTIES:

1. To independently develop and optimise large-scale production of protease protein.
2. To independently develop and optimise screens to be used in the identification of specific protease inhibitors, under the supervision of Dr James Burrows and Dr Rich Williams.
3. Design, develop, optimise and document protocols for use in screening cascade.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Assist supervisors with the preparation of material for funding proposals and applications to external bodies.
6. Prepare, often in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
7. 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 organisation of project meetings and documentation, financial control, risk assessment of research activities.
8. Carry out occasional undergraduate supervision within the post holder's area of expertise and under the direct guidance of a member of academic staff.
9. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

### ESSENTIAL CRITERIA:

1. Have, or be about to obtain, a PhD in biochemistry, cell/molecular biology, or a related discipline.
2. Have relevant research experience and extensive knowledge of routine biochemical, and cell/molecular biological techniques such as tissue culture, Western blotting, protease/enzyme activity assays, and recombinant protein production.
3. Publication record commensurate with stage of career.
4. Ability to contribute to broader management and administrative processes.
5. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within the established research programme.
6. Ability to communicate complex information clearly.
7. Ability to build contacts and participate in internal and external networks.
8. Demonstrable intellectual ability.
9. Ability to assess and organise resources.

### DESIRABLE CRITERIA:

1. Practical experience in large scale protein production.
2. Practical experience in protease/enzyme activity assays.
3. Practical experience of tissue culture.

4. Evidence of publication in research area.
5. Previous experience of optimising protein production and/or enzyme/protease activity assays.