

Candidate Information

Position:	Research Fellow in Carbohydrate Synthesis
School/Department:	Chemistry and Chemical Engineering
Reference:	21/109321
Closing Date:	Sunday 5 December 2021
Salary:	£34,304 - £36,382 per annum
Anticipated Interview Date:	Monday 13 December 2021
Duration:	Available until 31 December 2023

JOB PURPOSE:

The Cochrane lab are recruiting a post-doctoral researcher to be an active member of the research team and assist in the organic synthesis of antibiotic targets. The successful candidate will work on a highly interdisciplinary project involving the chemical synthesis of carbohydrates and glycolipids. The post holder will be responsible for the planning and delivery of research activity within the project so that the overall research objectives of the project are met. The post is a critical role, and as such, successful applicants will have responsibilities in independent research, supervision, planning, day to day lab management, collaborations and outreach.

MAJOR DUTIES:

1. To undertake research under supervision within the research project and as a member of the research team.
2. Design and implement synthetic laboratory-scale approaches towards glycolipids.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Prepare in consultation with supervisor, material for publication in peer-reviewed journals and presentations at international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. 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 organisation of project meetings and documentation, financial control, risk assessment of research activities.

Planning and Organising:

1. Plan for the use of research resources, laboratories and workshops where appropriate.
2. Plan own day-to day activity within framework of the agreed research programme.
3. Plan in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.
4. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. To exercise diligence and care when using laboratory equipment.
3. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

1. Liaise on a regular basis with the PI and fellow researchers regarding the progress of the project.
2. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
3. Maintain and develop external networks to ensure successful dissemination of the project findings.

ESSENTIAL CRITERIA:

1. Have a degree in Chemistry or Medicinal Chemistry (Minimum standard 2:1).
2. Have or about to obtain a PhD in Organic Chemistry.
3. At least 3 years research experience which includes:
 - Experience in synthetic organic chemistry.
 - Experience in the synthesis of carbohydrates.
 - Designing synthetic routes and performing multi-step chemical syntheses.
4. Demonstrable ability to apply core analytical techniques (1D/2D NMR, MS).
5. Strong publication record commensurate with stage of career.
6. Ability to supervise more junior colleagues/students in laboratory matters (safety, experimental design, methods), and in the preparation of theses, presentations, reports etc.
7. Ability to contribute to broader management and administrative processes.
8. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
9. Ability to communicate complex information clearly verbally, through presentation, and in writing.
10. Ability to assess and organise resources.
11. Ability to take a leading role within the research group.

DESIRABLE CRITERIA:

1. Experience in the synthesis of glycolipids.
2. Ability to build contacts and participate in internal and external networks.