

Candidate Information

Position:	Research Fellow
School/Department:	School of Chemistry and Chemical Engineering
Reference:	24/112288
Closing Date:	Monday 18 November 2024
Salary:	£39,922 - £47,631 per annum
Duration:	3 years

JOB PURPOSE:

The Cochrane lab are recruiting a post-doctoral researcher to be an active member of the research team, working on development of high-throughput screening methods to identify new antibiotics. The successful candidate will work on a highly interdisciplinary project involving the chemical synthesis and labelling of peptide and polyprenyls, and high-throughput screening of compound libraries (in collaboration with Fundación MEDINA). 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 target molecules.
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Produce high quality research outputs consistent with project aims and commensurate with career stage. This will include collaborating and co-authoring with PI and project team (as appropriate) on outputs.
5. In consultation with the project team, promote research milestones and outputs at national and international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out occasional educational supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
8. Undertake supplementary duties relevant to the success of the project including administrative duties and additional training and development activities as required.

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. Specific, relevant research experience which includes:
 - Experience in synthetic organic chemistry
 - 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 carbohydrates.
2. Experience in solid-phase peptide synthesis.
3. Experience in chemical labelling of biomolecules.
4. Ability to build contacts and participate in internal and external networks.