



UNIVERSITY OF LEEDS

**Research Fellow in Synthesis and Chemical Biology**  
**Faculty of Mathematics and Physical Sciences**



**Salary: 7 (£32,004 - £38,813 pa)**

**Reference: MAPCH1055**

**Fixed-term for 24 months**

# Research Fellow in Synthesis and Chemical Biology

## School of Chemistry

**Are you looking to apply your skills in Chemical Biology to the development of new approaches for discovery of protein-protein interaction inhibitors?**

As Research Fellow in Synthesis and Chemical Biology you will join a major 5-year EPSRC-funded programme focused on developing, validating and then exploiting new tools for discovering inhibitors of PPIs. You will assist the Investigators in delivering this large and complex research programme and will focus on the design, synthesis and testing of peptide/ peptidomimetic inhibitors of disease relevant PPIs, with considerable emphasis on targets in oncology.

### What does the role entail?

As Research Fellow your main duties will include:

- Designing, planning and conducting a programme of investigation, in consultation with Professor Andrew Wilson
- Generating independent and original research ideas and methods in the design, preparation and testing of peptides and peptidomimetics as inhibitors of protein-protein interactions
- Making a significant contribution to the dissemination of research results by publication in leading peer-reviewed journals, and by presentation at national and international meetings
- Working independently and as part of a larger team of researchers, both internally and externally to develop new research links and collaborations and engage in knowledge transfer activities, including secondments to other institutions where appropriate
- Contributing to the supervision of junior researchers and PhD students and acting as a mentor to less experienced colleagues
- Evaluating methods and techniques used and results obtained by other researchers and relating such evaluations to your own research
- To contribute to, and to encourage, a safe working environment

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.



## What will you bring to the role?

As Research Fellow in Synthesis and Chemical Biology you will have:

- A PhD in Chemical Biology
- The ability to design bioactive compounds
- Experience in the use of modern spectroscopic methods (e.g. two-dimensional NMR, IR, mass spectrometry) to characterise synthetic intermediates
- A good background knowledge of contemporary research in Synthetic Chemistry and Chemical Biology, and an interest in protein-protein interaction science
- Experience in Synthetic Chemistry in its broadest sense
- Ability to design, execute and write up research independently
- A developing track record of peer reviewed publications in international journals
- Excellent communication skills, both written and verbal and the ability to communicate your research at national and international conferences
- Good time management and planning skills, with the ability to meet tight deadlines
- A proven ability to work well both independently and as part of a team
- Ability to work accurately and carefully
- A strong commitment to your own continuous professional development

You may also have:

- Expertise in peptide synthesis and/or the use of solid-phase synthesis
- The ability to perform assays of protein-protein interactions
- Practical experience in the following: (i) use and/or development of biophysical assays to monitor biomolecular interactions; (ii) experience in molecular biology, recombinant protein overexpression and purification; (iii) experience in cell culture and cell-based assays
- Experience of public communication and engagement



## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information. Applications should be submitted by **23.59** (UK time) on the role's closing date.

## Contact information

To explore the post further or for any queries you may have, please contact:

**Andrew Wilson, Professor of Organic Chemistry**

Tel: +44 (0)113 343 1409

Email: [A.J.Wilson@leeds.ac.uk](mailto:A.J.Wilson@leeds.ac.uk)

## Additional information

Find out more about the research of the [Wilson Group](#).

For further information about the project, the School of Chemistry and the Astbury Centre for Structural Molecular Biology please see the supplementary information document.

### Working at Leeds

You can find out more about our generous benefits package and more about what it is like to work at the University and live in the Leeds area in our [Working at Leeds](#) information.

### Criminal record information

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information.

### Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found in our [Accessibility](#) information or by getting in touch with us at [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk).

