



Job title	Research Associate/Fellow in Synthetic Chemistry	Job family and level	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
School/ Department	School of Chemistry	Location	School of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD

Purpose of role

To work with Dr Nicholas Mitchell, and members of Dr Mitchell's research group, to develop new synthetic methods that enable the site-selective modification of peptides and proteins. The vision of the project is to develop operationally simple photochemistry that allows the incorporation of desired groups (post-translational modifications and non-proteinogenic moieties) into peptide/protein scaffolds via C-C bond-forming photochemistry. The role holder will be involved in preparing comprehensive reports and contributing to the creation of scientific publications based on the research findings.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	Research activities: Develop photocatalytic methods for the site-selective modification of peptides and proteins.	60%
2	Prepare high quality papers for publication in leading peer-reviewed journals.	20%
3	Give presentations internally at group meetings and externally at conferences	5%
4.	Identify and develop opportunities for research grant funding proposals.	5%
5	Provide support, guidance and co-supervision to undergraduate and/or postgraduate research students	5%
6	Any other duties appropriate to the grade and role of the post holder as necessary.	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> Outstanding experimental and laboratory skills. Excellent written, verbal and presentation skills. Proven ability to work as part of a team. 	<ul style="list-style-type: none"> Ability to play a leading role in mentoring PhD/MSc students.
Knowledge and experience	<ul style="list-style-type: none"> Well organised and self-motivated with the ability to manage the day-to-day running of a research project. Wide knowledge of current research in synthetic organic chemistry/chemical biology, and modern laboratory and analytical techniques. Demonstrated ability to learn new skills and techniques. Extensive experience in the characterisation of complex organic molecules. The drafting and publication of high-quality research articles, published in international peer-reviewed journals. 	<ul style="list-style-type: none"> Knowledge and experience in all or most of the following areas: synthetic organic chemistry/biological chemistry, peptide chemistry, protein bioconjugation, photochemistry, radical chemistry. Experience working on an interdisciplinary, collaborative project.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> PhD (or near completion) in Synthetic Organic Chemistry, Peptide Chemistry, Chemical Biology, or a related area. 	<ul style="list-style-type: none"> Established reputation for research in synthetic organic chemistry/biological chemistry.



The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others



