



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

## Purpose of role

To aid Dr Ben Pilgrim and the team in the Pilgrim Group in the development and application of novel classes of functional metal-organic cages.

More information can be found about the research underway in the Pilgrim Group at <https://www.thepilgrimgroup.co.uk/>

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	Design and synthesis of novel, functional metal-organic cages as detailed in the project objectives. Purification and characterisation of these materials by techniques including NMR spectroscopy, mass spectrometry and X-ray crystallography.	70%
2	Accepting delegated responsibility for safe laboratory practice within the Pilgrim Group and other small administrative tasks that contribute to the smooth running of the synthetic laboratory and the wider group (for example coordinating group jobs and lab rotas, ordering chemicals, maintaining equipment, completing safety checks).	5%
3	Instruction and day-to-day supervision of co-workers within the Pilgrim Group (PhD students, Master's students, summer and visiting students) as appropriate.	5%
4	To write up research work to a standard suitable for publication in internationally refereed journals and/or dissemination at national/international conferences.	5%
5	Assisting Dr Pilgrim in writing bids for research grant applications to external and/or internal funding bodies. To identify opportunities to apply for funding to extend own position (if desired).	5%

6	To identify and establish new opportunities for research collaborations and build upon existing collaborations, both internally and externally.	5%
7	Contributing to the intellectual life of the Pilgrim group and the School of Chemistry, including participating in School-wide meetings and group meetings and discussions.	5%
8	To contribute to teaching, for example through tutorials, laboratory demonstrations, and/or workshops.	Optional

## Person specification

	<b>Essential</b>	<b>Desirable</b>
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Be a highly competent experimental chemist, with a broad knowledge of how to perform synthetic organic procedures, purify reactions, and characterise molecules by appropriate analytical techniques (e.g., NMR, mass spec.).</li> <li>▪ Proven ability to be innovative/creative in experimental synthetic chemistry research.</li> <li>▪ Ability to work both independently and as an active member of a collaborative team, with both senior and junior colleagues and within the research group and externally.</li> <li>▪ Evidence of excellent communication skills, both orally and in written English, suitable for the preparation of scientific publications in world-class journals and presentation of research and international conferences.</li> <li>▪ Be well-organised and self-motivated, with the ability to manage the day-to-day running of a research project, to identify research objectives for both you and others, and meet research deadlines.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Specialist skills important to the chemistry undertaken in the Pilgrim group. This might include synthesis and characterization of metal-organic complexes, solving/interpreting single crystal X-ray structure data, or other experimental/computational techniques you think relevant to our work.</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ An excellent top five scientific achievements within the last four years (plus any career breaks), commensurate with career stage. This may include publications in international peer-reviewed journals, patents, major pieces of completed yet unpublished work, prizes awarded, previous success in gaining external funding.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Experience in public engagement/outreach activities related to your research or to chemistry more broadly.</li> <li>▪ Experience in the co-supervision of other research co-workers, for example PhD and Master's students, undergraduate and visiting students.</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ Possess a PhD in supramolecular chemistry, organic chemistry, or a related discipline; or have submitted PhD thesis in one of the above disciplines.</li> </ul>	



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.



The University is a signatory of the Declaration on Research Assessment (DORA). As such we commit to focus on the scientific content of publications (where requested or provided as part of the recruitment and selection process) as a basis for review of quality, and consideration of value and impact of research conducted, rather than any proxy measures such as Journal Impact Factor.

## 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



