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THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

FACULTY OF SCIENCE & ENGINEERING

SCHOOL OF NATURAL SCIENCES

DEPARTMENT OF CHEMISTRY

RESEARCH ASSOCIATE IN SYNTHETIC ORGANIC CHEMISTRY

VACANCY REF: S&E-15356

Salary:	£32,816 to £40,322 per annum, depending on relevant experience
Hours:	Full Time
Duration:	Fixed Term, from 5 May 2020 until 4 May 2021
Location:	Oxford Road, Manchester

Enquiries about the vacancy, shortlisting and interviews:

Contact: Professor David J. Procter Email: david.j.procter@manchester.ac.uk

BACKGROUND

You will work as a Research Associate in the group of Prof David J. Procter in the School of Chemistry at the University of Manchester on a project in collaboration with Dr Joseph J. W. McDouall. For more information about the Procter group and their research interests, please visit the Procter Group website (https://www.proctergroupresearch.com).

Overall Purpose of the Job

The project will involve the development of new enantioselective radical cyclizations and cyclization cascades. The novel methodology developed will be exploited in the synthesis of bioactive targets including natural products. You will report directly to Professor David J. Procter and work in collaboration with the computational chemistry group of Dr Joseph J. W. McDouall. A strong research and publication track record is essential. You must have excellent communication, presentation and interpersonal skills.

Key Responsibilities, Accountabilities or Duties

The range of duties will include:

• Conduct individual and collaborative research projects.



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- Write up research work for publication.
- Continually update knowledge and understanding in field or specialism.
- Translate knowledge of advances in the subject area into research activity.
- Communicate complex information, orally, in writing and electronically.
- Communicate material of a specialist or highly technical nature.
- Liaise with colleagues and students.
- Manage own research and administrative activities, with guidance if required.
- Work with colleagues on joint projects, as required.
- Attend and contribute to relevant meetings.
- Use new research techniques and methods.
- Use initiative and creativity to identify areas for research, develop new research methods and extend the research portfolio.
- Use creativity to analyse and interpret research data and draw conclusions on the outcomes.
- Contribute to collaborative decision making with colleagues in areas of research.
- Use research resources, laboratories and workshops as appropriate.
- Plan and manage own research activity in collaboration with others.
- Assist in the development of PhD student research skills.
- Balance with help the competing pressures of research and administrative demands and deadlines.
- Be aware of the risks in the work environment and their potential impact on their own work and that of others.

PERSON SPECIFICATION

Essential Knowledge, Skills and Experience

- Have, or be about to obtain, a relevant PhD (or equivalent).
- Strong journal publication record.
- Specialist knowledge in synthetic organic chemistry.



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- Experience in appropriate research methods and techniques.
- Excellent communication and interpersonal skills.
- Excellent time management and organisational skills.
- Ability to work independently and as part of a team.
- Ability to liaise confidently and effectively with a range of individuals.
- Flexible approach to dealing with research problems as they arise.
- Willingness to learn and develop.
- Ability to present both in writing and orally.
- Ability to meet deadlines.
- The ability to evaluate complex data.
- Ability to assess and organise resources.
- Understand equal opportunity issues as they may impact on areas of research content.