Job Description

Job title	Research Associate
Department/School	Chemistry
Job family	Education and Research
Grade	7
Reporting to	Dr James Taylor (PI)
Responsible for	Day-to-day co-supervision of doctoral or undergraduate students
Location	University of Bath premises

Job purpose
To develop a range of catalytic methods for the functionalisation of simple, readily available starting materials containing hydroxyl groups using boron-based catalysts. These methods will be applied to the synthesis of important hetereocyclic motifs, and fundamental understanding will be gained through mechanistic analysis.

Main duties and responsibilities	
1	Conduct individual research project. Contribute to the design and execution of the project e.g. timetabling and meeting project milestones; participating in regular discussions with collaborative partners. Generate, collect and analyse data related to the project using qualitative and/or quantitative techniques.
2	Writing up results of research and contributing to their publication in high-quality peer-reviewed academic literature.
3	Disseminating research findings through activities such as conference poster presentations, talks, seminars, and public engagement activities.
4	Participate in departmental/group meetings and prepare and deliver presentations/seminars to project team and/or external stakeholders.
5	Assist with the supervision of postgraduate students and undergraduate project students and the assessment of student knowledge.
6	Continually update knowledge and understanding in synthetic chemistry and catalysis to inform research activity.
7	Identify sources of funding and provide assistance with preparing bids to funding bodies. Develop ability to secure own funding e.g. travel grants.
8	Contribute to the development of research objectives and proposals for own or joint research projects, with assistance of a mentor, if required.
9	Disseminate knowledge of research advances to inform departmental teaching.
	You will from time to time be required to undertake other duties of a similar nature as reasonably required by your line manager. You are required to follow all University policies and procedures at all times and take account of University guidance.

Person Specification

Criteria	Essential	Desirable
Qualifications		
A PhD degree in Organic Chemistry	✓	
Experience/Knowledge		
Post-doctoral experience		✓
Experience in synthetic organic chemistry	✓	
Experience in homogeneous catalysis and/or methodology development		✓
Experience in mechanistic analysis of homogeneous catalytic reactions		✓
Demonstrated awareness of latest developments in the field of research and in research design	✓	
Demonstrated potential to publish in high quality, peer reviewed journals	✓	
Skills		
Ability to conduct individual research work	✓	
Ability to organise and prioritise own workload to meet required deadlines	✓	
Ability to write research reports / publications and experimental details	✓	
Ability to disseminate research through both formal and informal presentations	✓	
Excellent oral, interpersonal and written communication skills	✓	
Proficiency in spectroscopic techniques, processing, and independent spectra interpretation	✓	
Proficiency in core IT skills	✓	

Attributes		
Commitment to working within professional and ethical codes of conduct	✓	
Innovation and developing creative solutions	✓	
Commitment to excellence in research	✓	
Enthusiasm and self-motivation	✓	
Tenacity – working to achieve own and team objectives and to overcome obstacles	✓	
Ability to be an effective team worker	✓	
Commitment to safe working practices	✓	