



Job title	Research Associate/Fellow in Synthetic Electrochemistry	Job family and level	Research & Teaching Level 4 (Appointment will be Level 4 Career Training Grade where an appointment is made before PhD has been completed)
School/ Department	Chemistry	Location	GSK Carbon Neutral Laboratories, Jubilee Campus & University Park

Purpose of role

We are seeking to recruit a highly motivated and enthusiastic researcher to develop and apply novel catalytic and electrochemical reactions for the synthesis of target molecules relevant to the pharmaceutical and related industries. This project will involve the investigation of state-of-the-art electrochemistry and catalytic systems using advanced spectroscopy, modelling and theory.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	You will conduct high quality experimental research and provide research leadership, including expert supervision of graduate and masters students. Specifically, the project will build on previous research from the Licence group and will focus on expanding the scope of novel electrochemical processes designed to overcome current challenges faced by GSK and their application in streamlined syntheses of active pharmaceutical ingredients. You will be required to keep accurate records of your research (lab books, spectra etc) and record sustainability metric data.	70%
2	To prepare high quality experimental supporting information compatible with submission of the resulting work to high impact journals	15%
3	To liaise with project partners at GSK and University of Strathclyde as appropriate and identify and develop opportunities for further research.	10%
4	You may be asked to perform other duties occasionally which are not included in the above but appropriate to the grade and consistent with the role	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent skills in contemporary organic synthesis and electrochemistry including: the synthesis and purification of organic compounds on mg to multi-gram scales, an ability to use air and moisture sensitive reagents and catalysts effectively, an ability to characterise and deduce the structures of complicated molecular architectures through modern spectroscopic techniques (primarily 1 and 2D NMR and MS). Skill in bringing samples to analytical purity. ▪ Ability to build effective interactions and collaborations with others, both internally and externally. ▪ Excellent written, verbal and presentation skills. 	<ul style="list-style-type: none"> ▪ Ability to foster a research culture and commitment to learn in others through enthusiasm, commitment and excitement in science. ▪ Ability to play a leading role in mentoring less-experienced researchers in a research group.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience in the preparation of detailed high quality experimental and spectroscopic data 'write ups' forming the backbone supporting information to research (journal) publications. ▪ Proven ability to conduct high quality research in synthetic organic chemistry. ▪ A publication record in international peer-reviewed journals commensurate with stage of career. ▪ Well organised and self-motivated with the ability to manage and complete projects on time. ▪ Demonstrated ability to learn new skills and instrumentation. 	<ul style="list-style-type: none"> ▪ Experience in co-supervision of other research co-workers. ▪ Experience in using electrochemical reactors ▪ Experience of CHEM21 sustainability metrics
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ An existing PhD (or projected PhD award by mid-2023) in synthetic organic or electrochemistry. 	
Statutory, legal or special requirements	<ul style="list-style-type: none"> ▪ To take care for the health and safety of yourself and of other persons who may be affected by your acts or omissions at work in accordance with the Health and Safety at Work Act 1974, EC directives and the University's Safety, Health and Environment Policies and procedures and to cooperate with the University on any legal duties placed on it as the employer. 	



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

