

UNIVERSITY OF NOTTINGHAM

RECRUITMENT ROLE PROFILE FORM

Job Title: Research Associate/Fellow

School/Department: Chemistry

Job Family and Level: R&T Level 4

Contract Status: Fixed term, 24 months

Hours of Work: Full time 36.25 hours per week

Location: School of Chemistry

Reporting to: Dr. Darren Walsh

The Purpose of the New Role:

	Main Responsibilities	% time per year
1.	You will be expected to plan and execute a research programme on the synthesis and characterisation of electrocatalysts for electrolyzers. Noble-metal and non-noble-metal electrocatalysts will be synthesised and characterised using a range of physical and chemical methods. These materials will also be incorporated into water electrolyzers.	70%
2.	You will be required to keep accurate record of your research (lab books, spectra etc).	5%
3.	You will be required to engage in the daily mentoring of graduate and project students, and take responsibility for the safe running of the research laboratory.	10%
4.	You will be required to contribute to the publication of the research by drafting scientific articles.	5%
5.	You will be required to liaise with academic and industrial collaborators as appropriate.	10%
6.	You may be asked to perform other duties occasionally which are not included above, but which will be consistent with the role. For example, you may be asked to contribute to the teaching of physical chemistry in the School.	

Knowledge, Skills, Qualifications & Experience

	Essential	Desirable
Qualifications/ Education	Completed, or almost complete, PhD in electrochemistry or materials science, with particular emphasis on the development of materials for electrochemical energy conversion and storage	Experience in the development of electrocatalysts for energy conversion and storage A track record of published research in high-quality journals.

Skills/Training	<p>Outstanding experimental and laboratory skills. Excellent written, verbal and presentation skills. Proven ability to work as part of a team</p>	<p>Ability to play a leading role in mentoring less-experienced researchers in a research group. Research experience across a wide range of areas, focussed on synthesis of electrode materials, nanomaterials, and composite materials, and the use of physicochemical and electrochemical characterisation methods.</p>
Experience	<p>Wide knowledge of current research in electrochemistry and energy conversion and storage. Experience of electrochemical methods such as cyclic voltammetry and MEA polarisation analysis.</p>	<p>Experience in the handling of nanomaterials and electrocatalyst materials, as well as in the use of physical methods such as SEM, TEM, XRD, and XPS.</p>
Statutory/Legal	<p>To take reasonable 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.</p>	