

JOB DESCRIPTION

Vacancy Ref: A2229

Job Title:	Lecturer in Electrochemical Surface Science	Grade: 7/8
Department/College:	Chemistry / Energy Lancaster	
Directly responsible to:	for research: Prof Harry Hoster (Director Energy Lancaster); for teaching: Prof Peter Fielden (Head of Chemistry)	
Supervisory responsibility for:	1-2 PhD students and 1-2 PDRAs (funding to be secured)	
Other contacts		
Internal:		
Energy Storage Group		
Materials Science Institute		
Department of Engineering (Applied Electrochemistry); Department of Physics (Surface and Interface research)		
External:		
Industry partners with interests in Fuel Cells / Electrolysis / Electroplating / Batteries		
Energy Storage Research Network (ESRN, UK); Faraday Institution		
Academic collaboration partners in the UK and overseas, in particular in Liverpool, Erlangen (Germany), Ulm (Germany), DTU (Denmark)		
Major Duties:		
<ol style="list-style-type: none">1. To build up a research group with a focus on electrochemical surface/interface reactions with relevance for energy conversion and storage (electrolysers, fuel cells, batteries).2. To operate and upgrade an existing ultrahigh vacuum/electrochemistry transfer system to fabricate and study atomically smooth metal and oxide surfaces as model electrocatalysts.3. To closely collaborate within the Energy Storage Group at Lancaster University and with the Surface Science / thin film researchers in the Physics department.4. To closely collaborate with internal and external partners who focus on theory and modelling of electrochemical systems.5. To actively contribute to method development for an atomic-scale understanding of (electro-)chemical reactions at well-defined surfaces. This may for instance involve fabrication of model surfaces, chemical product analysis, in-situ diffraction, or in-situ spectroscopy.6. To promote and undertake research in areas relevant to existing and new industry partners, also in view of funding opportunities.7. To obtain funding to ensure the sustainability and growth of the energy materials research at Lancaster.8. To contribute to the teaching portfolio of the Chemistry department as delegated by the Head of Department, Prof Peter Fielden.9. To contribute to the wider objectives of the Energy Lancaster and the Chemistry Department.10. Any other duties appropriate to the grade as delegated by Prof Harry Hoster and Prof Peter Fielden.		