



Job Description

Job title:	Marie Curie Fellow (Early Stage Career Researcher)
Department/School:	Chemistry
Location:	1 South

Job purpose

The project will involve the preparation and characterisation of mesostructured and dye sensitized solar cells. The successful candidate will be expected to synthesise a range of materials, make a range of solar cells using these materials and learn how to use a wide range of characterisation techniques to investigate cell properties. In particular the effect of water on cell performance will be studied in detail.

Source and nature of management provided

Principal Investigator (Petra Cameron)

Staff management responsibility

None

Career and Professional Development Activities

From time to time you may be asked to assist in the facilitation of CPD activities. This will form part of your substantive role and you will not receive additional payment for these activities.

Main duties and responsibilities

1	To prepare and characterise solar cells.
2	To develop and disseminate research methodologies for the preparation of materials and devices.
3	To produce research outputs suitable for publication in high impact academic journals.
4	To write reports and give presentations (talks and/or posters) both internally and externally as appropriate for the development of the project.

5	To participate in the safe running of the laboratory.
6	To undertake other duties commensurate with the post as requested by the Research Supervisor
<p>You will from time to time be required to undertake other duties of a similar nature as reasonably required by your line manager.</p>	



Person Specification

Criteria	Essential	Desirable	Assessed by		
			A/F	I	T
Qualifications					
Masters level qualification in chemistry, physics or relevant related discipline.	√		√		
Expertise/Knowledge					
Excellent practical laboratory skills.	√		√	√	
Knowledge of electrochemistry, photovoltaics and energy materials.		√	√	√	
Skills					
Evidence of ability to plan and execute laboratory based research projects	√		√	√	
Good organisational ability	√		√	√	
Ability to work well within a team	√		√	√	
Excellent presentation and communication skills (e.g. in presenting research results and in writing concise and informative scientific reports.)	√			√	
Computational skills (word processing, data handling) and use of various statistical packages	√		√	√	
Attributes					
Developing research record (through high-impact publications and research presentations)		√		√	
Ability to interact proactively with other researchers		√		√	

Code: A/F – Application form, I/T – Interview/Test, R – References