

Two postdoctoral positions are available with the Corr group at the University of Glasgow. Both are collaborative research projects funded through SUPERGEN Grand Challenge awards. Please get in touch with Dr Serena Corr if you are interested in applying for these positions (serena.corr@glasgow.ac.uk)

Position 1:

<http://www.jobs.ac.uk/job/BHA127/research-assistant-associate/>

Job Purpose

You will contribute to an EPSRC Supergen funded project on tunable organic energy storage materials for Li- and Na-ion batteries. Working with Dr Serena Corr in the Functional Nanomaterials group, you will contribute to a project involving the characterisation and property measurement of (iso)alloxazine derivatives as active electrodes in batteries.

This position is part of a close collaboration between the Corr group, Prof Graeme Cooke (PI on project, Glasgow) and Dr. David Scanlon (co-supervisor of his position, UCL).

Specifically, the job requires expert knowledge in battery testing and evaluation. The project will involve the application of electrochemical tests to evaluate battery performance of our electrodes and the use of DFT methods to characterise the electronic properties of our (iso)alloxazines. Previous DFT experience would be beneficial but training will be provided. Experience in battery electrochemistry is essential.

The successful candidate will also be expected to contribute to the formulation and submission of research publications and research proposals as well as help manage and direct this complex and challenging project as opportunities allow.

Position 2:

<http://www.jobs.ac.uk/job/BHA128/research-assistant-associate/>

Job Purpose

You will contribute to an EPSRC Supergen funded project on new high throughput microwave synthetic routes to Li-ion battery materials. Working with Dr Serena Corr in the Functional Nanomaterials group, you will contribute to a project involving the characterisation and property measurement of battery materials.

This position is part of a close collaboration between the Corr group, Dr Eddie Cussen (Strathclyde), Prof Andrew Goodwin (Oxford) and Dr Peter Baker (ISIS) and the successful applicant will spend time working with each research group. The project is part of a wider collaboration with colleagues at Glasgow (Profs D. Gregory and N. Gadegaard), Loughborough (Dr P. Panchmatia) and UCL (Dr. D. Scanlon).

Specifically, the job requires expert knowledge in materials characterisation. The project will involve neutron and X-ray diffraction, total scattering measurements, measurement of Li diffusion properties (using impedance analysis and muon spectroscopy), Li-ion battery assembly and testing and experience in any or all of these areas would be beneficial. The project will also involve some synthesis but has at its heart a focus on characterisation.

The successful candidate will also be expected to contribute to the formulation and submission of research publications and research proposals as well as help manage and direct this complex and challenging project as opportunities allow.