Imperial College London

Eleven post-doctoral research associate positions and multiple PhD positions in battery science and engineering and upcoming positions

Electrochemical Science and Engineering Group
Imperial College London

Introduction

Electrification of transport is a key cornerstone of the UK Government's industrial strategy challenge fund and an essential enabler to achieve long term emission targets. As part of the £246M Faraday Challenge fund, we are looking to hire 11 research associates/assistants to work in the Electrochemical Science & Engineering Group at Imperial College London on a range of technologies that will enable higher performing, cheaper and longer lasting battery systems. The successful candidates will join a friendly and supportive community of world class researchers at Imperial College London with a reputation for excellence. The projects are part of the Faraday Challenge in addressing some of the grand challenges which will enable the widespread deployment of electric vehicles in one of the biggest coordinated research efforts in batteries in the world.

Jobs

We are looking for a range of candidates, from modellers to experimentalists, and from electrochemists, physicists, mathematicians, electrical and control engineers, to mechanical engineers and more. Some of the positions require previous experience in batteries, but not all, so if your skills and knowledge match the job description and you are interested in the position please apply. A high level of technical excellence, collaborative working and ability to critically think is necessary. Candidates who have not yet been officially awarded their PhD will be appointed as Research Assistant within the salary range £32,380-£34,040 per annum. The currently advertised posts are shown below. For applications please submit via the Imperial College London online system. Details are provided on the online job advert.

The latest details of all jobs can be found here.

http://www.imperial.ac.uk/mechanical-engineering/research/mechanics-of-materials/faraday-challenge-innovate-uk-collaboration/

Email Dr Jacqueline Edge for further information j.edge@imperial.ac.uk

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Battery modeller - BATMAN project 36 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Monica Marinescu Partners: Perkins and AVID Technology Closing date: 21/01/2018	The Advanced BAttery Thermal MANagement (BATMAN) project aims to develop the next generation of battery packs with significantly improved performance and lifetime through intelligent control and design.
Battery experimentalist - BATMAN project 36 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Yatish Patel Partners: Perkins and AVID Technology Closing date: 21/01/2018	The Advanced BAttery Thermal MANagement (BATMAN) project aims to develop the next generation of battery packs with significantly improved performance and lifetime through intelligent control and design.
Battery experimentalist - ATTESTS project 12 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Yatish Patel Partners: Rolls Royce Closing date: 21/01/2018	The Automotive Technology Transfer of Energy Storage Thermal Strategies (ATTESTS) project will test the feasibility of a novel thermal management system for battery packs.
Battery experimentalist - THT project 12 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Yatish Patel Partners: Thermal Hazards Technology Closing date: 21/01/2018	The Thermal Hazard Technology (THT) project will develop thermal management test rigs for lithium-ion batteries and translate this into state-of-the-art testing equipment.
Battery experimentalist - ABLE project 12 months - £32,380-£39,800 per annum Supervisors: Dr. Billy Wu, Dr. Sam Cooper Partners: M-KOPA, Denchi Power Closing date: 18/01/2018	The Advanced Battery Life Extension (ABLE) project will develop novel diagnostic techniques for lithium-ion batteries for the development of more durable second life battery packs.
Battery experimentalist - IMPACT project 12 months - £32,380-£39,800 per annum Supervisors: Dr. Billy Wu, Dr. Sam Cooper Partners: Arcola Energy, Reaction Engines, Flint Engineering, Brunel University Closing date: 20/01/2018	The Improved Power battery Cooling Technology (IMPACT) project will develop novel thermal management technologies for high power lithium-ion battery packs.
Battery experimentalist - CoRuBa project 12 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Yatish Patel Partners: Fergusson's Advanced Composite Technology Closing date: 02/02/2018	The CoRuBa project will develop next generation composite materials for improved thermal management of lithium-ion batteries.
Battery modelling - 6 positions 36 months - £32,380-£44,220 per annum Supervisors: Dr. Gregory Offer, Dr. Monica Marinescu, Dr. Billy Wu, Dr. Sam Cooper, Prof Aron Walsh Closing date: tbc Email Dr Jacqueline Edge to be informed when the adverts go live j.edge@imperial.ac.uk	There will be 6 positions for battery modelling, as part of a major new interdisciplinary battery modelling project. This will range from the atomistic scale (i.e. materials), continuum scale (i.e. cell), system level (i.e. packs) and control (i.e. battery management systems).
Multiple PhD positions available 36-48 months - UK/EU bursaries available Supervisors: Dr. Gregory Offer, Dr. Monica Marinescu, Dr. Billy Wu, Dr. Sam Cooper, Prof Aron Walsh, Dr Huizhi Wang	PhDs in all aspects of modelling and experimental testing of lithium ion batteries available. Email Dr Jacqueline Edge to be considered. j.edge@imperial.ac.uk