

JOB DESCRIPTION

Vacancy Ref: A2786

Job Title: Research Associate: Secure monitoring of EV Battery Packs	Grade: 6
Department/College:	SCC / Energy Lancaster / Security Lancaster Institute
Directly responsible to:	Dr Angelos Marnerides
Supervisory responsibility for:	Click here to enter text.
Other contacts	
Internal:	
Prof Harry Hoster (Director Energy Lancaster), Networking Group, School of Computing & Communications, Security Lancaster Institute, Academic Centre of Excellence in CyberSecurity Research	
External:	
Faraday Institution, Multi Scale Modelling (MSM) Consortium, BMW, Jaguar Land Rover, AGM Batteries Ltd., Altelium Ltd., Technical University Munich, Warwick Manufacturing Group, Imperial College, University College London, University of Oxford, University of Bath, University of Southampton, University of Birmingham	
Major Duties:	
<ol style="list-style-type: none"> 1. To interact and collaborate with the related research groups within Energy Lancaster and the Security Lancaster Institute, the various stakeholders and companies that participate in the activities for real-time monitoring of EV battery packs. 2. To undertake research and identify the security and communication requirements for a real-time end-to-end monitoring system for EV battery packs. 3. To undertake research such as to design and implement security methods for ensuring the resilient and scalable operation of a real-time monitoring system for EV battery packs. This will start with selected “end-to-end” test cases and will be broadened over time. 4. To participate in regular project meetings with industrial and academic partners; preparation and presentation of talks, posters and reports to disseminate the results of these studies. 5. To participate in national and international conferences and workshops to present the results of the project to a wider audience and to learn about current advances in the field. 6. To prepare journal and conference papers for publication of project findings. 7. Any other duties appropriate to the grade as delegated by Dr Angelos Marnerides and Prof Harry Hoster. 	