Virtually Connected Hybrid Vehicle Network (Battery Energy Storage Systems) PhD

**Funding:** Funded for UK/EU students for 3.5 years
**Start date:** 1 October 2017 (or earlier is possible)
**Supervisor:** Dr Dhammika Widanalage

**Project Overview:**
This is an exciting PhD opportunity to work on a highly collaborative research project with the Energy and Electrical Systems group at WMG, University of Warwick, and the Digital Engineering and Test Centre in London.

The aim of the Virtually Connected Hybrid Vehicle (VCHV) project is to reduce time-consuming physical testing of hybrid vehicle prototype components, including the development of the test rig, and the physical testing of the complete system. This will be achieved by testing a virtual version of the complete hybrid system, connected online to the remote individual real components located at six UK universities (Warwick, UCL, Bath, Nottingham, Loughborough, Newcastle), and virtually running the complete system test through the Digital Engineering and Test Centre (DETC) in London.

At WMG, you’ll be researching modelling of battery energy storage systems and the real-time communication of the results to subsystem and control requests from other project partners.

**Funding:**
This position provides a tax free stipend for UK/EU nationals of £14,000 (plus £3,000 industrial top-up) per year, and all fees paid are paid for UK/EU nationals, for up to 3.5 years.

**Eligibility:**
We are actively seeking an enthusiastic individual to join our team at WMG, Warwick with the following entry requirements and expectations:

- Candidates must have a 1st or 2.1 undergraduate (BEng, MEng) and/or postgraduate Master’s qualification (MSc) in a science and technology field, e.g. Engineering, Mathematics, Computer Science or Physics.
- Experience in using MathWorks products with an understanding in real-time application of models and hardware-in-the-loop simulations.
- An understanding and/or experience in embedded processors, coding for embedded systems, communications systems, algorithm design.
- To take part in weekly meetings (Webex) with other project partners, and write update reports to highlight progress to partners.
- Due to the collaborative nature of the overall project some travel to partner locations will be required.
- A passion and enthusiasm to challenge the state of the art in an exciting new technology application space.

This list is not exhaustive but we would hope the candidate could provide a breakdown of their degree and/or interests to provide us with a general picture of their knowledge and experience.
Application:
Informal enquires can be addressed to Dr Dhammika Widanalage and Dr Matthew Higgins in the first instance.

This is a COMPETITIVE application process and a formal application must be completed. Please ensure you meet the minimum requirements before filling in the online form. The information supplied will then be sent for review to assess your suitability and interviews will be conducted.

As part of the application, please supply your CV, grades and qualifications (achieved and/or expected), and a project plan and/or personal statement on why you think you should be considered for this position. Written references do not need to be supplied but may be sought after shortlisting with your permission. The awardee will however be required to supply satisfactory references at the acceptance stage.

To make an application, please complete our online enquiry form.