

Faculty of Engineering and Computing - Cogent Computing Applied Research Centre

PhD studentship in Pervasive Computing: Wireless sensing and HVAC comfort control in vehicle cabins- starts 28th September 2010 or January 2011

Closing date for applications: 1st September 2010 (early enquiries welcomed)

Applications are invited for a fully-funded PhD position with the *Cogent Computing Applied Research Centre* (www.cogentcomputing.org) in the Faculty of Engineering and Computing at Coventry University.

The Centre has a thriving portfolio of externally funded research within the area of Pervasive Computing. The main strands of work involve exploration, development and deployment of leading-edge software and hardware technologies for wireless networked sensing and actuation applications.

The Centre has excellent industrial and academic links both in the area of sensing and that of autonomous systems. Its large portfolio of projects is supported by 8 PhD students and several senior research staff.

Applicants holding an MSc or a First/2:1 Honours Degree in Electronics Engineering or Computer Science subjects are invited to apply for this PhD position on a new project with first class industrial collaborators from within the Automotive industry.

The project will seek to develop and prototype new strategies for controlling car cabin environments towards increased comfort and low energy consumption HVACs, based on detailed sensing. Data acquisition, high-level data processing and real-time modelling and control capabilities for wireless sensor networks will be developed, informed by theory, experimentation and simulation. The project is expected to advance the areas of physiological and environmental measurement and multi-sensor fusion for identification and development of representative comfort models in vehicle cabins. Thus, the project is co-supervised by a human physiology expert from the Faculty of Health and Life Sciences.

The successful candidate will be highly motivated and bring skills in software development, electronics engineering, embedded systems, ad-hoc networks or wireless communications. Candidates who can work across the software/hardware development boundaries are most suitable for this project. The successful candidate needs to be willing to work with physiological researchers and gain an understanding of the human response to a variety of environmental stimuli in cabin environments.

Short-listed candidates will be expected to attend an interview day at the Cogent Computing Applied Research Centre, Coventry University.

The eligibility for this position is limited to UK and EU nationals and candidates who are considered home students.

The studentship covers the PhD fees and provides a net stipend of £12,504 per annum for a period of 3 years.

For more information **contact**

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Director of Cogent Computing Applied Research Centre