



PhD scholarship at the University of Girona, Spain

The Modal Intervals and Control Engineering Group is seeking 2 PhD students to work on the development of an artificial pancreas for control of type 1 diabetic patients. Candidates will be involved in the project **SAFE-AP: NEW METHODS FOR AN EFFICIENT AND SAFE DOMICILIARY ARTIFICIAL PANCREAS IN TYPE 1 DIABETES**, a high-profile research project funded by the Spanish government and other public and private agencies with the participation of leading research Hospitals and companies. The main objective of this Project is **the development of new methods and tools for efficiency and long-term safety of the artificial pancreas at home**. This project will focus on development and validation of control algorithms for fault tolerance and robustness to disturbances.

SAFE-AP project is conducted by the Universitat de Girona and the Universidad Politécnica de Valencia (Spain) in collaboration with three leading research hospitals: Hospital Clinic de Barcelona, Hospital Clínico Universitario de Valencia and Hospital Francesc de Borja de Gandía. (more info in <http://micelabdiabetes.wordpress.com/>)

Qualifications

Applicants must have completed a master's degree in engineering, together with experience in design and simulation of control systems. Candidates should demonstrate proficiency in modelling and simulation applications, preferably utilising Matlab/Simulink. The successful candidate must be enthusiast and greatly interested in fundamental research. In addition to this, excellent communication skills are important for this position and a good command of the English language is required.

Project term

Enrolment and salary are according to the Spanish Universities regulations. Enrolment will start in early 2015. The Ph.D. student will be appointed for a period of one year, extensible up to three years.

Information and application

You may contact Prof. Josep Vehí (josep.vehi@udg.edu)

Interested applicants are invited to send their Curriculum Vitae, academic records, the names of two professional referees, a list of publications, a summary of their M.Sc. thesis and a cover letter stating their motivation, to

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Applicants are encouraged to submit their applications as soon as possible. Review of applications will commence immediately.