

PhD position in medical imaging at IFIC, Valencia (Spain)

Position: PhD fellowship within the Marie Curie ITN ENTERVISION.

Duration: 3 years

Application deadline: 30th June 2011

Approximate contract start: 1 October 2011

Project description:

The IRIS research group of the Instituto de Física Corpuscular (IFIC, Valencia, Spain, <http://ific.uv.es/>) opens a 3-year PhD position within the European Marie Curie ITN ENTERVISION, and the PhD program of the University of Valencia. IRIS (<http://ific.uv.es/iris>) is a young group with wide experience in high energy physics and medical imaging applications, both in instrumentation development, modeling and image reconstruction. IRIS participates in several national and international projects for PET and Compton imaging applications, and in international collaborations with CERN, Technische Universität München, University of Michigan, Università di Pisa, or Université de Sherbrooke, among others. It has about 15 members, including Master and PhD students, and postdocs from different countries.

The activities of the group include two projects for detector development based on continuous crystals coupled to silicon photomultiplier arrays. The ENTERVISION Early Stage Researcher (ESR) will participate mainly in the development of a Data Acquisition System specifically adapted to these detectors, but also adaptable to other types of detectors. She/he will also participate in the detector development, calibration, testing and data analysis.

Profile and requirements:

Applicants must have a M. Sc. in Physics, Electronics Engineering or similar. Other requirements include basic physics knowledge, experience in electronics instrumentation and/or design (FPGAs, VHDL), programming languages (C++, Matlab, LabView), etc. A fluent English level and team work ability are essential.

In order to fulfill the eligibility criteria of the Marie Curie ITN, applicants must be in the first four years of their research career and have not yet been awarded a doctoral degree. Also, they must not have resided or carried out their main activity in Spain for more than 12 months in the 3 years immediately prior to their recruitment. Spanish candidates can apply if they have resided in another country for more than 3 years of the last 4 years.

How to apply:

The foreseen starting date is 1 October 2011, but it can be set in agreement with the selected candidate. To apply, please send CV and application letter with the subject *PhD ENTERVISION* to:

Dr. Carlos Lacasta (carlos.lacasta@ific.uv.es)

Dr. Gabriela Llosá (gabriela.llosa@ific.uv.es)