

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

The IRIS 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.

The group participates in the ENVISION European project, in the development of in-beam TOF PET and Compton telescope detectors for dose monitoring in hadron therapy. The Compton telescope is based on Continuous LaBr₃ crystals coupled to silicon photomultiplier (SiPM) arrays.

The Early Stage Researcher (ERS) will be mainly focused on the development of a Data Acquisition System specifically adapted to the detectors employed in ENVISION, based on SiPMs, and will participate also in the detector calibration and data analysis. She/he will be enrolled in the PhD program of the University of Valencia.

Applicants must have a M. Sc. in Physics, Electronics Engineering or similar by the application deadline. 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 is essential, and they should not have resided in Spain for more than 12 months at the starting date.

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 and image reconstruction. IRIS participates in several international collaborations, and has about 15 members, including Master and PhD students, and postdocs from different countries.

The foreseen starting date is 1 October 2011, but it can be set in agreement with the selected candidate. Interested candidates please send CV and application letter to Dr. Carlos Lacasta (carlos.lacasta@ific.uv.es) or Dr. Gabriela Llosá (gabriela.llosa@ific.uv.es) before 30th June 2011.