

Expression of Interest



UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Contact Person/Scientist in Charge

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Universitat Politècnica de València (UPV)

Department / Institute / Centre

- **Name:** Research Center on Software Production Methods (PROS) - Universitat Politècnica de València
- **Address:** Campus de Vera; Camino de Vera, s/n; Valencia (46022)
- **Province:** Valencia

Research Area

- Information Science and Engineering (ENG)

Brief description of the institution:

Universitat Politècnica de València (UPV) is the single Spanish Technical University that features in the main University world rankings. It is within the top 5 Spanish Universities with the highest revenue from both public research and knowledge transfer activities, and a national leader in patent license income and start up creation. Constituted in 1971, it comprises nearly 30.000 students, over 2500 academics, and 17 university research centres of excellence.

UPV has a relevant experience in the participation in international research programmes, with over 100 FP7 projects and 40 H2020 projects in the period 2014-2015. UPV researchers are also actively involved all H2020 life program stages, from workprogramme drafting discussions, to project coordination. It is also taking part in several major partnering initiatives (JTIs, PPPs, KICs...).

Brief description of the Centre/Research Group (including URL if applicable):

Universitat Politècnica de València (UPV) www.upv.es is the single Spanish Technical University that features in the main University world rankings. It is within the top 5 Spanish Universities with the highest revenue from both public research and knowledge transfer activities, and a national leader in patent license income and start up creation.

PROS Research Centre www.pros.upv.es (Research Centre on Software Production Methods), is a Research Institute from the UPV created in 2008 by lecturers and researchers with more than 25 years of research experience. At PROS Centre more than 50 researchers work in the study and creation of new processes, methods and strategies in order to support the software production process from a rigorous, reliable and industrial-oriented perspective.

The PROS research areas are: Software Testing and Quality, Model-driven development (MDD) and automatic code generation, Human-computer Interaction, Method Engineering, Organizational Modelling and Requirements Engineering, , Ambient Intelligence and Genomic Information Systems.

PROS major equipment for research experimentation include:

- Computation cluster for automatic software testing
- Cyber-physical Laboratory: Smart Devices to develop and prototype Smart Cities/Buildings
- Autonomic Laboratory: Smart Devices to develop and prototype highly dynamic scenarios, including Autonomous Vehicles (drones)
- Genomic databases server

Project description:

From requirements to code

For the near future in the research are "From Requirements to Code", we want to promote the design and implementation of lightweight languages for information systems requirements specification. The main objective is to link lightweight languages with model-driven development environments for code generation. Goal and business process light-modelling languages will facilitate the adoption of requirements engineering techniques by industry.

Applications

Curriculum vitae and motivation (before end of june)