

## Expression of Interest



### Contact Person/Scientist in Charge

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### Universitat Politècnica de València (UPV)

#### Department / Institute / Centre

- **Name:** Research Institute of Water and Environmental Engineering (IIAMA), Universitat Politècnica de València (UPV)
- **Address:** Campus de Vera; Camino de Vera, s/n; Valencia (46022)
- **Province:** Valencia

#### Research Area

- Information Science and Engineering (ENG)
- Environmental Sciences and Geology (ENV)

### 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):**

The Research Institute of Water and Environmental Engineering (IIAMA) has the objective of promoting technical and scientific research on water resources in a multidisciplinary way by the integration of research groups of UPV from different knowledge areas, as well providing specialized training and technical consulting. IIAMA comprises 10 research areas related to water management and water and environmental engineering that integrate into a multidisciplinary research structure leader in water resources R&D&I. IIAMA has around 1 hundred employees, including more than 20 full and associate professors and several post-doc researchers, offering an ample scientific-technical baggage consolidated in the last 20 years in subjects related to Water and the Environment. IIAMA has been involved / participates in a large number of national and international networks (e.g. member in two EIP-Water Action Groups) and competitive research projects (FP6, FP7, Horizon 2020, LIFE, etc.), and has wide experience in technology transfer and cooperation with private companies and governmental agencies.

**Project description:**

Advanced topics on water resources and environmental engineering

IIAMA is asking for candidates in the following research areas:

- Integrated approaches for impacts and adaptation to climate change
- Flood risk and flood warning systems
- Integrated planning and management of water resources / water conflicts resolution
- DSS for water resources planning and management
- Multicriteria and participatory approaches for water resources management
- Drought planning and management
- Hydroeconomic models for water resources planning and management
- Water-energy nexus
- Uncertainty in hydrological predictions
- Erosion modeling at catchment scale

- Ecohydrology / riparian vegetation modeling
- River-lakes-reservoirs-surface water quality modelling
- Environmental flows and water management
- Integrated management of coastal areas
- Tools for application of the WFD in Coastal and Transitional Waters
- Tools for environmental impacts assessment

### **Applications**

Applicants should submit:

(1) detailed curriculum vitae;

(2) a 2-page document including: letter of motivation indicating research interests, selected research area and experience (max 1 page); abstract of the intended MSCA research proposal (max 1 page).

Deadline: June 15, 2016.