

Expression of Interest



Contact Person/Scientist in Charge

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Universitat Politècnica de València (UPV)

Department / Institute / Centre

- **Name:** Nanophotonics Technology Center - Universitat Politècnica de València
- **Address:** Campus de Vera; Camino de Vera, s/n; Valencia (46022)
- **Province:** Valencia

Research Area

- Information Science and Engineering (ENG)
- Physics (PHY)

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 NTC is a research institute of the Universitat Politècnica de València. The NTC has currently 50 members including university professors, postdocs, technicians and PhD students. Our premises (3800 m2 building) include a 500 m2 clean room (class 10-100). Our research activities are focused in nanophotonics, from basic science to the development of optical devices, systems and networks. We participate in a number of EU and national projects and in research activities with companies and other institutions. We have created two spin-off companies: DAS Photonics (space, aeronautics, and defense) and Fibernova (telecom).

Project description:

Novel optoelectronic devices based on silicon CMOS technologies

Development of optoelectronic devices based on silicon CMOS compatible technologies for telecom and datacom applications. Novel materials, such as transparent conductive oxides, will be investigated to enhance the electro-optic performance beyond current state-of-the art.

Applications

Candidates should submit a CV and a letter of motivation at least three months before the call deadline