

2 PhD positions at ITEAM-PRL

Profile 1: Development of new devices made in multicore/multimode fiber devices

The aim of the PhD will be the development of novel multicore/multimode fiber devices that would find use in a wide range of new application domains ranging from Telecom applications (5G fronthaul optical networks, switching/routing devices, modulation formats) to Sensors (civil engineering, space, bio applications).

The interested candidates should hold a BSc/MSc in Physics or BEng/MEng degree in Electronics/Telecom Engineering (or related discipline) with an overall qualification above average (>7). Experience in fibre-optics is also strongly appreciated.

We offer: Work in the environment of the Photonics Research Labs (www.prl.upv.es) with a young and dynamic team of scientists, strong international collaboration, access to modern technology labs and participation in a cutting edge research programs, with strong industrial relations.

Application: Interested candidates are encouraged to send by e-mail before the 22th October: an application letter, a brief Curriculum Vitae, a scanned copy of the University records, a record of achievements (papers, presentations etc), and any reference letter to:

Prof. Salvador Sales ssales@iteam.upv.es

Profile 2: Programmable Integrated Photonics

The PhD candidate will work on the emerging area of Filed Programmable Photonic Arrays (FPPAs) and integrated waveguide mesh photonic circuits. The work will include design, test and characterization as well as the development of machine learning techniques for circuit supervision and training. programmable integrated photonic circuits have applications in traditional fields such as Telecommunications, sensing and RF systems as well as in emerging areas such as analog processing for artificial intelligence, and quantum information systems.

The interested candidates should hold a BSc/MSc in Physics or BEng/MEng degree in Electronics/Telecom Engineering (or related discipline) with an overall qualification above average (>7). Experience in integrated photonics will be valued.

We offer: Work in the environment of the Photonics Research Labs (www.prl.upv.es) in a young and dynamic world-leading team of scientists, strong international collaboration, access to modern technology labs and participation in a cutting edge research programs, with strong industrial relations.

Application: Interested candidates are encouraged to send by e-mail before the 22th October: an application letter, a brief Curriculum Vitae, a scanned copy of the University records, a record of achievements (papers, presentations etc), and any reference letter to

Prof. José Capmany jcapmany@iteam.upv.es