

## **Marie Curie Early Stage Researcher/PhD Studentships in Optics / Photonics / Physics**

**School of Physical Sciences, University of Kent, UK and NKT Denmark**

**Title: Ultrawide bandwidth photonics devices, sources and application**

Two Marie Curie Early Stage Researcher/PhD positions for 36 months starting from 1st February 2014 are available within the Applied Optics Group, School of Physical Sciences. These are supported by an EU funded Marie Curie Initial Training Network European Industrial Doctorate, jointly organized with NKT Photonics Denmark. Students will spend half of their time in Kent and half at NKT in Denmark. Research will focus on innovative solutions of generating and handling the supercontinuum (SC), connection between noise and usefulness of SC in applications such as optical coherence tomography and generation of tunable UV-light sources using the SC. Supervision will be provided in an European setting where specialised and complementary training will be provided at the two sites as well as during network events.

At the time of recruitment, applicants: should be in the first four years (full-time equivalent) of their research careers and must not have resided or carried out their main activity (work, studies, etc) in the UK or Denmark for more than 12 months in the 3 years immediately prior to appointment. The applicant must have a good background in theoretical and experimental optics and expected to have graduated in Physics (Optics) or Electrical and Electronic Engineering. We are looking for highly imaginative and self-motivated individuals with expertise in lasers, cameras, fibre optics, digital signal processing. Prior experience of LabView or C++ and skills in interfacing I/O boards are essential.

The applicant will be paid a salary in the region of €40,000 (paid in the local currency using an appropriate conversion rate), subject to Marie Curie regulations. A mobility allowance depending on personal situation is also paid.

The Applied Optics Group, where the student will be based, has recently moved into a new state-of-the-art facility and is incorporated into the Photonics Centre, as part of a University-wide initiative to co-locate all Optics research under one roof. More on the research in the Applied Optics Group can be found at: <http://tinyurl.com/53ljm6>.

NKT is the leading company within ultra precise fiber lasers and supercontinuum sources. The company focuses on commercial optical solutions that simplify the value chain and bring enhancement for the end-customers. The company has around 115 employees and is situated in Birkerød, about 25 km north of Copenhagen. For more info, see: <http://nktphotonics.com/>.

**To apply**, please complete the online application form available at: <http://www.kent.ac.uk/studying/postgrad/apply/index.html>. Your application must nominate Prof. Adrian Podoleanu as the supervisor and the title above as the research area in which you wish to work. You should also send a full CV with description of your skills in Optics, practical Lab projects and digital signal processing by e-mail to Prof A. Podoleanu, School of Physical Sciences, Ingram, University of Kent, CT2 7NH, UK, till the closing day, 15 December 2013, at [ap11@kent.ac.uk](mailto:ap11@kent.ac.uk)