

Marie Curie Early Stage Researcher/PhD Studentships in Lasers/Optics/Photonics/Physics
School of Physical Sciences, University of Kent, UK and NKT Denmark
Title: Ultrawide bandwidth photonics devices, sources and application

We are recruiting for a PhD Studentship in Optics/Photonics/Physics for a period of 36 months with a start date anytime between 1st October 2014 and 30 December 2014, within the Applied Optics Group, School of Physical Sciences. These are supported by the Marie Curie Initial Training Network European Industrial Doctorate scheme, jointly organised with NKT Photonics, Denmark. The Early Stage Researchers will spend half of their time in the University of Kent and half in industry, at NKT in Denmark.

Research will focus on innovative solutions of broadband lasers, generating and handling the supercontinuum (SC), developing specialized SC sources for medical applications, such as for 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. Cosupervision will involve specialists from Institute of Ophthalmology London, Northwick Parks Hospital London, Technical University of Denmark and Optos plc. In addition to a salary of £31,644, subject to Marie Curie regulations, a mobility allowance depending on personal situation is also paid.

At the time of applying, applicants should be in the first four years (full-time equivalent) of their research careers, not yet have a doctoral degree 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 Department: The Applied Optics Group, where the student will be based, is placed 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/>.

Closing date for applications: no later than 30 Dec. 2014

Interviews are to be held: Anytime between now and 20 Nov. 2014

How to apply - for posts of this nature you will be required to fill in the main details section as well as upload your full CV, a one page summary (this should include a description of your skills and experience in Optics, practical laboratory projects, software expertise and digital signal processing and other information in support of your application with direct reference to the advertisement and further particulars) and any supporting documents.

http://www11.i-grasp.com/fe/tpl_kent01.asp?newms=jj&id=38277&aid=14243

or visit

<http://www.jobs.ac.uk/job/AIY342/marie-curie-early-stage-researcher-phd-positions/>

If you require further information regarding the post or application process please contact Hannah Preece at h.l.preece@kent.ac.uk. **Please note applications must be made online via the University website; details sent directly via email cannot be considered.**

If you require further information regarding the post or application process please contact the principal investigator, Professor Adrian Podoleanu, at ap11@kent.ac.uk.