



PHOTONICS RESEARCH CENTRE

Postdoctoral Research Position in Optical Fiber Sensing Dublin Institute of Technology

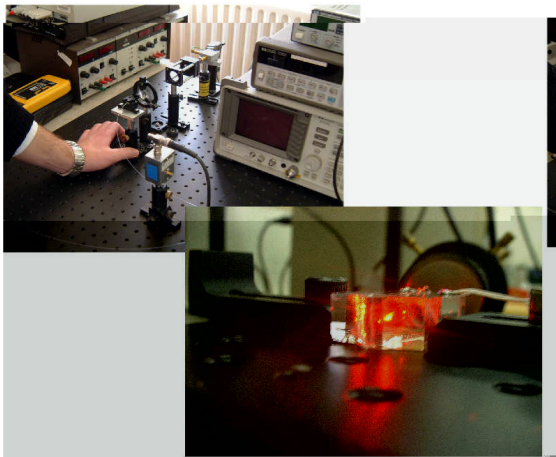


Project description

Optical fiber sensing of temperature offers a range of advantages by comparison to an electrical sensing counterpart, eg. immunity from electrical interference, chemical resistance and a wide measurement range. Disposable fiber temperature sensors can open up new opportunities in many application areas, such as in the development of high quality composite structures which require the integration of sensors into the materials to measure the internal temperature during manufacture. The main objective of this project is the development and optimization of a novel disposable fiber temperature sensor, based on a macro-bend singlemode fiber loop which can measure temperature over a wide range with high resolution. This project will investigate several issues concerning the optimization, high temperature capability and the implementation of the sensor for internal temperature measurements of advanced composite materials. The postdoctoral researcher to be appointed will be expected to lead this research strand within the Centre.

Photonics Research Centre

The Photonics Research Centre is within the School of Electronic and Communications Engineering at the Dublin Institute of Technology. It involves several Faculty members, post-docs and graduate students, undertaking research in areas such as optical sensing, FBG interrogation systems, liquid crystals, photonic integrated circuits, waveguide and fiber modelling. The group has a wide range of experience, a strong publication track record and is supported by well equipped facilities. Further information is available at www.prc.dit.ie



Position Details

The Centre is seeking a postdoctoral researcher with experience in optical sensing or related areas. Experience in fiber coatings and/or fiber protection in a sensing application would be a considerable advantage. Candidates must hold a Ph.D. degree and have a good publication track record to date. Candidates should have a demonstrated capacity for independent work and be capable of initiating research in a group.

The contract duration is initially one year but this may be extended subject to performance and the availability of funding.

The annual salary for the position is €46,570.

For further details please contact the Principle Investigator (details below).

Applications:

Please send an up-to-date CV to: **Dr. Gerald Farrell (Head of School and Principal Investigator)**
Closing date: 9th January 2009

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