



Postdoctoral position in *fibre laser development*

FOTON – ENSSAT, University of Rennes 1, Lannion, France

A postdoctoral position will be available in the field of *fibre laser development*. The candidate should preferably have a PhD degree in experimental laser physics, nonlinear optics or fibre-based photonics.

The postdoctoral researcher will work, in Laboratory FOTON, on a project associating an industrial partner, specialized in innovative laser technologies. The project concerns the development of new fiber-based laser architectures for high-power pulsed sources operating in the visible and the UV spectral range. The final application of the laser is related to material processing.

The candidate will have to propose and study some original fiber laser configurations. Different techniques for generating the intensity modulation and for extracting high energy from very large mode area fibers will be studied. The impact of the laser infrared characteristics (like beam quality, bend sensitivity, degree of temporal coherence and polarization, etc.) will be analysed in order to fulfill the further higher harmonic generation requirements. In the frame of this project exotic optical fibers will be investigated.

Laboratory FOTON, associated with the National Centre for Scientific Research (CNRS), is a worldwide specialist in laser physics and optical communications. Lannion is a city located on the sea coast of Brittany (north-west of France) and one of the main French centres of excellence for laser and fibre optics.

The position starts on 2011 February, 1st and is for 12 months (extension to 24 months possible)

Interested applicants should provide a detailed curriculum vitae, a description of research experience and interests, and if possible names and contact information of professional references to:

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