

## Postdoctoral position in Nonlinear Fiber Optics (Dijon, France)

A 2-year PostDoc position is available in the Solitons, Lasers and Optical Communication Group at ICB Photonics, Department of Photonics, Laboratory Interdisciplinaire Carnot de Bourgogne (ICB). The PostDoc project is a part of the project *Breathing Light* recently funded by the University of Bourgogne Franche-Comté (UBFC).

URL Host laboratory: <http://icb.u-bourgogne.fr/en/>

The PostDoc project aims to explore a class of nonlinear waves, called “breathers” and related to the well-known Benjamin-Feir instability phenomenon. In contrast to basic solutions of the nonlinear Schrödinger equation, breathers exhibit richer dynamics that makes them unique objects, with a large range of applicability that could be developed. The candidate will be in charge of numerical and experimental studies of breather waves in nonlinear optical fibers by means of ultrafast wave processing. Manipulation of breather waves is also planned to be investigated in more complex optical systems, and with a multidisciplinary approach in hydrodynamics and electrical transmission lines.

Candidates are required to have a doctoral degree in Physics or Engineering Science, necessarily with a track record within the areas of fiber optics and waveguides, nonlinear optics or optical wave processing. Applications must be submitted in English as one pdf file containing all materials to be given consideration.

The assessment of the applicants will be made by: Dr. Bertrand Kibler.

Please send the following documents by e-mail to [sophie.aupet@ubfc.fr](mailto:sophie.aupet@ubfc.fr):

1) For EU candidates: Copy of your national ID card or of your passport page where your photo is printed.

For non EU candidates: Copy of your passport page where your photo is printed.

2) Curriculum Vitae (1 page) including hyperlinks to your ResearchID, Research Gate Google Scholar accounts.

3) Detailed list of publications including hyperlinks to DOI of each publication.

4) Letter of motivation relatively to the position (Cover Letter) in which applicants describe themselves and their contributions to previous research projects (maximum 2 pages).

5) Copy of your PhD degree if already available.

6) Coordinates of reference persons (maximum 3): Title, Name, organization, e-mail.