



**Postdoctoral position at the laser center
CELIA
University of Bordeaux, France**

In the framework of the HiPER international program we are seeking to appoint an experienced postdoctoral researcher to work on development of the technology for producing high energy pulses in fiber based amplifiers. HiPER is a proposed European High Power laser Energy Research facility dedicated to demonstrating the feasibility of laser driven fusion as a future energy source. HiPER is being designed to enable a broad array of new science including extreme material studies, astrophysics in the laboratory, miniaturised particle accelerators and a wide range of fundamental physics research. The successful candidate will work in the CELIA laboratory in Bordeaux University in collaboration with the LULI laboratory at the Ecole Polytechnique as well as the CEA research center CESTA close to Bordeaux.

The research will involve investigations on fiber-based solutions aimed at producing energetic pulses (10 mJ) from elementary modules that could be scaled to a large number. The candidate will be in charge with the design and realization of the fiber amplifiers and associated amplification devices. A particular attention will be paid on the thermal issues and heat dissipation in the different geometries investigated will be fully modelled.

The candidate should have strong skills in the domain of laser and amplifier design and in particular high power high energy fiber lasers and amplifiers, laser thermal load management. Knowledge in synchronization and laser cavity locking will be an asset.

The position is for 12 months and opens from now with a monthly gross salary around €2500. Researchers with experience in the above mentioned areas are encouraged to apply. Applications including a resume, a statement of motivation and 2 letters of recommendation must be sent to:

Dr. E. Cormier
CELIA, Université Bordeaux 1,
351, Cours de la libération, 33405 TALENCE CEDEX, France
Phone: +33 5 40 00 61 86
E-mail: eric.cormier@celia.u-bordeaux1.fr

Dr. J.C. Chanteloup
Laboratoire LULI, Ecole Polytechnique,
91128 PALAISEAU CEDEX, France
Phone: +33 1 69 33 53 95
E-mail: jean-christophe.chanteloup@polytechnique.fr