

## **Post-Doc for EUFORIA project.**

The Institute for Magnetic Fusion Research at CEA Cadarache, 13108 St Paul lez Durance France, is seeking for a POSTDOCTORAL RESEARCHER.

The focus of the laboratory is to conduct researches on nuclear fusion based on magnetic confinement in a Tokamak.

The work will be conducted in the frame of the Euforia project that has been launched in January 2008 for 3 years and includes 14 associations. The Euforia project ([http://en.wikipedia.org/wiki/EUFORIA\\_project](http://en.wikipedia.org/wiki/EUFORIA_project)) will enhance the modelling capabilities for ITER sized plasmas through the adaptation, optimization and integration of a set of critical applications for edge and core transport modelling. The spreading and use of grids and high performance computers are topical for this project. The tasks have a close relation with the European project Integrated Tokamak Modelling: <http://www.efda-taskforce-itm.org/>.

The successful candidate will be in charge of the implementation of libraries for launching codes on grid and HPC, then to develop access libraries to data and workflow tools for the simulations. As the simulator itself comes from ITM, these tools will have to be integrated with ITM tools.

He/she will conduct research on this topic, including design and realisation.

He/she will work within the team "transverse activities" in the group GICA, which gathers computers related activities. He/she will be under the responsibility of Bernard Guillerminet, task leader.

Candidates must have a Ph.D. in the required field of research. He/she will have a background on scientific software development based on J2EE standards, demonstrated experience in design and modelling. A deep knowledge of tools and concepts related to Grid and HPC is required. He/she must master the English language and an international experience would be appreciated.

For scientific questions concerning the project, contact Dr Bernard Guillerminet, [bernard.guillerminet@cea.fr](mailto:bernard.guillerminet@cea.fr), Tel: +33 04 42 25 46 05

Applications must include a résumé, a motivation letter, and possibly letters of recommendation. They should be addressed to

Stéphane BALME CEA Cadarache

Institut de recherche sur la fusion par confinement magnétique

13108 St Paul lez Durance Cedex

For electronic submission of applications, e-mail to [stephane.balme@cea.fr](mailto:stephane.balme@cea.fr)

The position is available now, for one year, and applications will be accepted until September-October 2008.