20.09.2011 Camerino (Italy)

The XAS laboratory of the School of Science and Technology of the University of Camerino is seeking motivated candidates for:

n. 1 Post-doctoral fellow

The scientific activity will be related to the execution and analysis of advanced experiments at the TIMEX beamline, now in the final commissioning stage at the *new free-electron laser (FEL) facility* Fermi@ELETTRA (Trieste, Italy). The aim of the TIMEX project (see http://gnxas.unicam.it/TIMEX) is the development and exploitment of an end-station dedicated to the investigation of metastable and/or excited states of matter under extreme conditions, using this unconventional laser source.
The TIMEX beamline exploits the unique intensity, energy domain and time structure of the FEL radiation. The pulse energy and intensity of the Fermi@Elettra FEL beam is suitable for an efficient ultrafast heating of most bulk-like dense samples and various challenging experiments including creation and investigation of warm dense matter (WDM) and study of transitions occurring in metastable states under extreme conditions.

The fellow is expected to participate to the current experimental program and to the successive analysis of the results, bringing also new ideas and expertise to the TIMEX team.

Candidates should have a PhD in physics (or completed within the end of 2011) or related field, experience in ultrafast spectroscopy, X-ray techniques and extreme conditions are highly desirable. Initial appointment is for 1 year with possible extension upon mutual consent.

The successful candidate will join the XAS group (http://gnxas.unicam.it), collaborating to the TIMEX project with the EIS group at Trieste. Main work location will be Trieste or Camerino upon mutual consent.
Camerino University is a recognized scientific institution, one of the oldest in Italy, and is located in beatiful natural environment (more infos at http://www.unicam.it). The ELETTRA synchrotron radiation facility in Trieste operates one of the few free-electron lasers presently existing with unique performances (more infos about the seeded FEL at http://www.elettra.trieste.it/FERMI/).

Further information requests or pre-applications (including a CV with list of publications and the names of two referees) should be sent to Andrea Di Cicco (andrea.dicicco@unicam.it) and will be considered immediately until the position is filled.
The expected starting date of the contract is 1st January 2012-28 February 2012.

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