Παρακαλώ γνωστοποιήστε και αναρτήστε στην ιστοσελίδα της Επιτροπής Ερευνών την πρόσκληση ενδιαφέροντος για μια θέση υποψήφιου διδάκτορα στα πλαίσια του έργου (#80573): FP7-RESEARCH EXECUTIVE AGENCY - SP3 People - Marie Curie - ITN - FP7-PEOPLE-2010-ITN - GRAND AGREEMENT 264635 - BioTiNet «Academic-Industrial Initial Training Network on Innovative Biocompatible Titanium-based Structures for Orthopaedics».

Με τιμή
Χ. Λέκκα
Επικ. Καθηγήτρια
ANNOUNCEMENT

PhD Thesis Student, Topic: Computational materials science
At the Department of Materials Science & Engineering, University of Ioannina, Ioannina, Greece
Deadline: 7 March 2011

Job Description: Funding of a PhD position of 36 months, working as part of a EU Research Training Network entitle “Academic-Industrial Initial Training Network on Innovative Biocompatible Titanium-base Structures for Orthopaedics”, is available at the Department of Materials Science & Engineering of the University of Ioannina, Greece, starting on January 2011. These are posts, open primarily to nationals of EU Member or Associated States (other than GREEKS).

The aim of the project is to develop a computational procedure (from ab-initio towards large scale molecular dynamics simulations) for the investigation and design of low rigidity Ti-based alloys. The figure below shows the microscopic details of a simulated nanocomposite system upon tensile deformation.

![Sequence of snapshots showing the tensile deformation accommodation of a nanostructured alloy.](attachment:image.png)

Candidates that hold a degree in Physics, Materials Science or Chemistry or having basic knowledge on quantum mechanics and computational methods are encouraged. Possible experience in ab-initio calculations using DFT, LAPW or Tight-Binding methods as well as classical Molecular Dynamics Simulations will be taken into account.

The working language could be English.

Letters of application, including a full CV, a list of undergraduate courses / remarks and the names and addresses of two referees should be sent to:

Ch. E. Lekka,
Department of Materials Science and Engineering,
University of Ioannina, Ioannina,
Greece, 45110,
Tel: +30 26510 07310
Fax: +30 26510 07037
e-mail: chilekka@cc.uoi.gr