Χ. Λέκκα
ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ
Τμήμα Μηχανικών Επιστήμης Υλικών
Κτίριο Διοίκησης – Πανεπιστημιούπολη
45110 ΙΩΑΝΝΙΝΑ

Ιωάννινα, 15 Φεβ. 2011

Παρακαλώ γνωστοποιήσετε και αναρτήσετε στην ιστοσελίδα της Επιτροπής Ερευνών την πρόσκληση ενδιαφέροντος για μια θέση υποψήφιου διδάκτορα στα πλαίσια του έργου (#80573): FP7- RESEARCH EXECUTINE 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

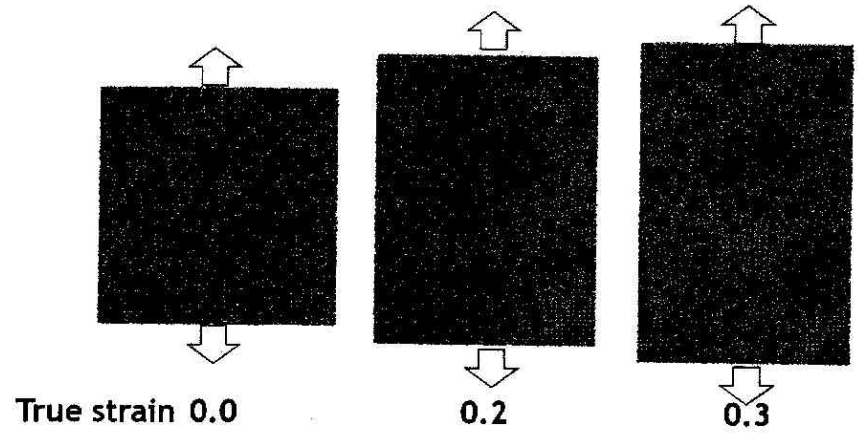
Χ. Λέκκα

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. (*Ch.E. Lekka et al, J.Nanoscience & Nanotechnology 9(2009)1)*

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:
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