FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

Post-Doc Position (Wissenschaftl. Angest.) available from 15.7.2012

The Friedrich-Alexander University Erlangen-Nuremberg Emerging Field Initiative (EFI) Project 'Bioactive Materials, Cell and Tissue Printing: New therapeutic Approaches for Organ Level Tissue Engineering and Regenerative Medicine' (TOPbiomat)

is looking for a **postdoctoral researcher** who will be part of a multidisciplinary network that aims to develop and investigate novel principles for custom-tailored scaffolds for regenerative medicine. It is our vision that tissue/organ engineering with the involvement of tailored bioactive materials, self-assembling proteins, functionalised nanoparticles, and relevant cells will enable the manufacture of complete organs or organ parts. In this way, the complicated and lengthy cultivation or organs in- vitro/ in vivo could be omitted and clinical translation of TE will become a closer reality as complex human-sized engineered tissues and organs will be become available. The concept of self-assembling proteins in this context represents the driving force for the development of new biomaterials that support the growth and functional differentiation of cells and tissues in a controlled manner. It is recognised that the cell-material interaction in the complex processes involved can be enhanced by controlling and inducing the assembly of relevant proteins on biomaterial surfaces.

The position is implemented as a Junior Research Fellow at the TVL-E13 level or higher and granted for a period of 1 year (12 months). A comfortable budget for consumables, access to characterization facilities and attendance of conferences is available.

Essential requirements of the candidate:

- Completed PhD (chemistry, physics, life sciences engineering with biological background)
- Experience with biomaterials - biopolymers
- Experience with tissue engineering methods

Desired experience of the candidate:

- Self assembling peptides and proteins
- Synthesis and characterization of hybrid constructs/scaffolds
- Growth factors and cell encapsulation

The position is a research position and it is not associated with a teaching load.
The Friedrich-Alexander University is an equal opportunity employer and strongly encourages female researchers to apply for this position. Handicapped candidates are given priority upon equal suitability.

Deadline for applications is: **30.06.2012**

Please send your complete CV, alongside with certificates, research profile and publication lists to:

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