



PhD Position

Bio-inspired Nanomaterials: Biomimetic Lipid Membranes

Two open positions for PhD students at the Center for NanoBiotechnology (CNB) in cooperation with the Medical University of Vienna are currently available in the field of research **Bio-inspired Nanomaterials: Biomimetic Lipid Membranes**. The objectives of the project are the generation of lipid membranes which are anchored to proteinaceous S-layer lattices and their characterization in terms of fluidity, long-term robustness, and in particular reconstitution and functional analysis of responsive transmembrane proteins. The achieved knowledge is important not only for **basic research** but also for **screening devices**, e.g. for ligands, pathogens, drug candidates, and for the **design and development of membrane protein-based biosensors**. Background information can be found on the CNB homepage (<http://www.nano.boku.ac.at/znb.html>) and the FWF homepage (<http://www.fwf.ac.at>).

Requirements: Candidates must hold an MSc degree and should have a sound background in biophysics and molecular biology/genetics with interest in organic chemistry and molecular nanotechnology. Practical experience in biochemical methods and fluorescence techniques are of advantage. The highly motivated candidates should be excellent team players with the ability to work independently in an interdisciplinary environment (see CNB homepage).

Starting point and duration: Beginning of 2008 for three years.

We offer: Motivating scientific environment, cutting-edge research in nanoscience, weekly seminars, participation on workshops and conferences, and financial support according to the guideline of the FWF: http://www.fwf.ac.at/de/projects/personalkostensaetze_2007.html

Application: Please send your application including cover letter, CV, and names along with contact addresses of two referees to:

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