

# Max Planck Institute of Biophysics

Department of Structural Biology, Prof. Werner Kühlbrandt

October 1<sup>st</sup>, 2009

The department of Structural Biology at the MPI of Biophysics in Frankfurt am Main is offering a

## Postdoc

position from January 2010 to lead the **PACEM (Phase Contrast Aberration Corrected Electron Microscope) project** within the Excellence Cluster „Macromolecular Complexes“.

The goals of the PACEM project include:

- # Implementation and application of an electrostatic phase plate in a dedicated, Cs-corrected TEM to maximize phase contrast
- # Proof of increased SNR and structural resolution in molecular 3D reconstructions and electron tomograms through in-focus TEM
- # Development of specialized low dose imaging and image processing techniques as well as novel TEM components within an industry cooperation

Required qualifications:

- # Academic degree and doctorate in physics or biophysics
- # Experience in the field of electron microscopy, preferably of biological specimens; alternatively in the field of materials science TEM
- # Independent project management and realization of scientific objectives; coordinating research with co-workers from science and industry
- # Experience with image processing and reconstruction software (e.g. MatLab SPIDER, IMOD, EMAN, ImageJ, Amira)
- # Basic knowledge of molecular or cell biology is desirable

The payment is according to German TVöD (federal) and working time is 39 hours per week.

Disabled candidates having equal qualification will be considered with preference.

Please send a resume and CV describing your academic career by email:

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