



The Institute of Experimental Internal Medicine offers a:

**Postdoctoral position (E13, TV-L) (m/f)**  
in  
**Computational Chemistry / Biomolecular modeling**

We appreciate a computational chemist to apply biomolecular modeling and computational chemistry techniques towards advancement of small-molecule drug discovery programs. As part of interdisciplinary project teams, the successful candidate will apply computational ligand-based and structure-based drug design methods in close collaboration with medicinal chemists and biochemists. Preferred Qualifications:

- Excellent track record in molecular modeling and computational chemistry
- Experience with one or more molecular modeling tools (MOE, Discovery Studio, etc.)
- Creative and detail-oriented problem solver with a strong interest in drug discovery
- Fine grasp of the physical chemical properties of small-molecules and its interactions with proteins
- Substantial experience in protein modeling
- Excellent communication and presentation skills
- Experience working on a biomedical science project in a biopharmaceutical setting.

The research program of the institute encompasses scientific projects on Signal Transduction and Molecular Pathogenesis in Infection Biology, Inflammation and Cancer. The basic and translational research studies focus on clinically important intracellular signal transmission pathways, involving the assembly of protein complexes within signaling cascades and a variety of posttranslational modifications with a special emphasis on the NF- $\kappa$ B network. For the comprehensive analysis of the regulatory networks in the cell, we rely on methods in Mass Spectrometry and innovative approaches in Systems Biomedicine to evaluate the obtained data. The molecules of interest studied in the process of molecular pathogenesis could represent protein biomarkers. Herein, exclusive proteins with a special emphasis on predictive indicators of disease are studied for therapeutic intervention and drug discovery.

The institute cooperates with the clinics of the *Centre of Internal Medicine* in teaching and research and coordinates or participates in a variety of coordinated programs funded by the German Research Foundation (SFB854, SFB779) and the Federal Ministry of Education and Research (e:Bio). Further, the institute is member of the interdisciplinary "*Research Center Dynamic Systems: Biosystems Engineering*" funded by the Federal State of Saxony-Anhalt within the "*Excellence Program*".

The Otto von Guericke University wishes to increase the proportion of female academic personnel. Women are therefore explicitly encouraged to apply. Handicapped persons with equivalent qualification will be given preference.

Please send your application together with the usual documents (CV, list of publications, present and past extramural funding etc.) to: Prof. M. Naumann (ieim@med.ovgu.de). For further information please visit our webpage: <http://www.med.uni-magdeburg.de/ieim.html>.