

Postdoctoral Position in Shenzhen/Beijing/Bremen in Computational Science for Renewable Energy Storage

The Shenzhen Computational Science and Applied Research (CSAR) Institute jointly with the Beijing Computational Science Research Center (CSRC) and the Bremen Center for Computational Materials Science (BCCMS) at University of Bremen invite applications for several Postdoctoral Research Positions in the field of **Predictive Computational Theory of Functional Materials for Photo-Catalysis and Photovoltaics**.

Major topics of research include:

- Photocatalytic chemical reactions of molecular species on metal oxide surfaces with novel methods to treat charged defects
- Real-Time Quantum Dynamics using Ehrenfest Molecular Dynamics

Applicants should hold a PhD in Computational Physics/Chemistry and have strong background in the development and use of advanced electronic structure theory in combination with real-time time-dependent approaches for explaining and predicting properties of functional materials. Strong Skills in programming (mostly Fortran+MPI, C++ and Python) are required.

Successful candidates will work in the newly opened branch of CSRC in Shenzhen with extended periods of research at BCCMS in Bremen, Germany. We offer competitive salary ranging up to 500 k-RMB per annum after TAX and we expect strong commitment, excellent communication skills and ability to work with highly qualified professionals with international backgrounds.

Postdoctoral Research Scientists at Shenzhen/Beijing CSAR/CSRC and BCCMS Bremen are typically appointed for an initial 2 years period, with a possible extension for an additional year. **Promotion to an Assistant Professor at the Tenure Track Level is possible depending on the qualification and excelency of scientific record of applicants. Candidates having potential to apply within the Young Researcher 1000-Talent Program are particulary encouraged to submit applications.**

Applications, including Motivation Letter, CV, Academic Record, Major Achievements, list of publications, 3 Reference Names, have to be sent in the above order within a single pdf package to Prof. Thomas Frauenheim - frauenheim@bccms.uni-bremen.de or frauenheim@csrc.ac.cn

Prof. Dr. Thomas Frauenheim;

Computational Science and Applied Research Institute (CSRC) Shenzhen,
Beijing Computational Science Research Center (CSRC) and
Bremen Center for Computational Materials Science (BCCMS), University of Bremen