



The department "Molecular Theory and Spectroscopy" is presently looking for candidates for a

Postdoc (f/m)

**with a PhD degree in theoretical chemistry or physics
and experience in computational chemistry.**

The postdoctoral position is available in the group of Alexander A. Auer (Dept. Professor Dr. Frank Neese) in molecular and heterogeneous catalysis, combined with computational chemistry.

The vacant position is to be filled as soon as possible, however the starting date is flexible. The position is initially for 12 months and is remunerated according to the labor agreement for public service (TVöD), E13. A prolongation is possible.

Job Description: The MPI CEC is presently looking for a candidate with a strong background in theoretical chemistry or physics to strengthen our research team. The candidate will carry out a highly relevant project in the field of energy storage in the framework of the Federal Ministry for Economic Affairs and Energy (BMWi) project 'Development of novel low Pt-loading PEM-fuel cell catalysts based on hollow graphitic spheres supports - project modelling (BMWi Pt-TM-HGS)'. The project comprises three stages: (1) modelling Pt-nanoparticle on carbon catalysts as applied in fuel cell cathode materials, (2) electronic structure calculations for the simulation of catalyst degradation mechanisms (3) close cooperation with experimentalists to assess the results of the simulations using experimental data and refinement of models and calculations.

Qualifications: PhD degree in theoretical chemistry or physics. Basic knowledge about quantum chemistry (e.g. DFT calculations) will greatly help.

Application: The Max-Planck-Society explicitly encourages women to apply. Furthermore the Max-Planck-Society wishes to increase the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Please send electronic versions of your documents and address all enquiries to Alexander A. Auer (contact details shown below). Application documents must include a cover letter, a curriculum vitae with the contact details of two referees and a copy of your PhD certificate.

Closing date: August 5, 2016

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