



The Max-Planck-Institut für Kohlenforschung in Mülheim an der Ruhr, founded in 1912, conducts basic chemical research aimed at making chemical transformations as energy and resource efficient as possible and catalysis with all its facets is at the center of the research.

The department Molecular Theory and Spectroscopy is presently looking for a

**Postdoc (f/m/d)**  
**full time position (39 hours)**  
**with a strong background in quantum chemistry.**

The postdoctoral position is available in the group of Theoretical Methods and Heterogeneous Reactions (Prof. A.A.Auer) within the framework of a BMBF Project for optimized materials design for the industrial generation of hydrogen using improved oxygen evolution electrodes (PrometH<sub>2</sub>eus).

The vacant position is to be filled as soon as possible, however the starting date is flexible. The position is initially for 12 months, can be extended to the three-year duration of the project and is remunerated according to the labor agreement for public service (TvöD).

**Job Description:** We are presently looking for a candidate with a strong background in theoretical chemistry to strengthen our research team. The candidate will carry out a highly relevant project in the field of materials science, heterogenous catalysis, electrochemistry and method development. Research topics cover a broad range of quantum chemistry applications starting from structural and mechanistic studies on electrochemical reactions like the oxygen reduction reaction up to small development projects within the ORCA quantum chemistry package.

**Qualifications:** PhD degree in theoretical chemistry or physics. Basic knowledge about quantum chemistry, theory and algorithms as well as electrocatalysis will greatly help.

**Application:** Please send electronic versions of your documents and address all inquiries to Alexander A. Auer (contact details shown below). Application documents should include a cover letter, a detailed curriculum vitae, a letter of recommendation of a previous supervisor and a copy of your PhD certificate. The Max Planck Society strives to ensure a workplace that embraces diversity and provides equal opportunities irrespective of gender, nationality or disabilities of the applicants. We are committed to increasing the number of individuals with disabilities in our workforce and therefore encourage applications from such qualified individuals.

**Closing date: June 20<sup>th</sup> 2021**

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