

The EPR Research group at the Max Planck Institute for Chemical Energy Conversion (MPI CEC) is looking for a PhD student.

The EPR group at MPI CEC employs electron paramagnetic resonance (EPR) techniques to monitor and characterize paramagnetic states relevant in energy conversion and storage processes. We develop and apply state-of-the-art EPR spectrometers ranging from GHz to THz frequencies. Our spectrometers are capable of a wide repertoire of CW/pulsed multi-resonance and multi-frequency EPR methods for powder, crystal, solution and in-situ experiments.

The project aims at the characterization of function determining paramagnetic transition metal ions in homogenous and heterogeneous catalysts by advanced EPR methods. The tasks include further development of EPR instrumentation and in-situ EPR probes, EPR measurements as well as data simulation and interpretation.

We are looking for a highly motivated young scientist with the following skills:

- A master degree in physics, chemistry or a related subject
- Interest in magnetic resonance spectroscopy
- Background in electronic engineering, quantum mechanics or inorganic chemistry.
- Very good networking and communication skills
- Very good knowledge of the English language (spoken and written)

The position is available 1st of June 2018 for a duration of 36 months with an option of renewal. The salary is based on the Collective Agreement for the German Public Service (TVöD-Bund). We particularly welcome applications from women. MPI CEC supports a family-friendly workspace and applicants with children are highly welcome. Preference will be given to handicapped applicants provided equal suitability.

Contact:

Please send your electronic application until April 15th 2018 via email to Dr. Alexander Schnegg. Application documents shall include a cover letter, curriculum vitae, copies of your degree certificates, reference letter(s) or contact details of a supervisor willing to write a reference letter upon request.

Dr. Alexander Schnegg
Max Planck Institute for Chemical Energy Conversion
Stiftstr. 34-36
45470 Mülheim a.d. Ruhr, Germany
Tel: +49 (0)208 306 3526
E-Mail: alexander.schnegg@cec.mpg.de