



Opening for a Research Associate position in - AEM/seawater electrolysis for hydrogen production -

The *Electrochemical Catalysis, Energy & Materials Sciences* group (Prof. Dr. Peter Strasser) at the Department of Chemistry, Berlin Institute of Technology (Technische Universität Berlin, Germany), seeks to recruit a

PhD student and/or a postdoctoral research associate (f/m/d)

in the area of electrochemical hydrogen production *via* AEM-based direct electrolytic splitting of fresh- and/or seawater.

Project description

Large-scale hydrogen gas production *via* water electrolysis requires the identification of earth-abundant, low-cost electrocatalyst materials and advanced electrolyzer cell designs. Recently, water electrolysis using anion-exchange membranes (AEMs) has gained significant attraction as an alternative technology, potentially reducing hydrogen production costs and enabling the utilization of both freshwater and impure/saline electrolyte feeds. We offer a position with a pioneering role for

- the development of noble-metal-free electrocatalysts for AEM/seawater electrolysis,
- their electrochemical testing in two- and three-electrode setups (e. g. RDE, half-cell setup), and
- the optimization of single-/short-stack cell designs.

A comprehensive set of theoretical and practical skills, relevant for both academia and industry, will be conveyed. The candidates are encouraged to perform research activities independently, explore the potential of future research directions, and participate in the teaching and supervision of student theses.

Appointment criteria

- requires a recent Master's or PhD degree in physical or electro-chemistry, chemical or materials engineering
- research experience with electrochemical methods, materials synthesis and characterization
- strong speaking and writing skills in English
- knowledge of German language is desirable

We offer an attractive workplace with access to a variety of advanced characterization techniques combined with a wide range of training opportunities.

We prefer to balance the number of employees (f/m/d). Therefore, we kindly ask female applicants to apply for this job.

Interested candidates are asked to send a motivation letter and a CV, their complete list of publications, along with names and contact information of two references and the identifier code "AEM" to Prof. Dr. Peter Strasser (pstrasser@tu-berlin.de).