

The Collaborative Research Center CRC 1073 „Atomic scale control of energy conversion“ at the Georg-August Universität Göttingen and collaborating institutions invite applications for a

PhD Position

(Salary group 13 TV-L, at least 50 %, i.e. 19.9 h/week)

In-situ TEM study of active states during photo-electrochemical water splitting

in the Project C02 (Principal investigators Prof. Christian Jooss, Prof. Simone Techert). The position is available starting August 1st 2017 and is limited to three years.

Your tasks and duties:

You will drive research in fundamental mechanisms of energy conversion in complex materials down to the atomic scale. You will work in a team of highly motivated researchers from different scientific disciplines and contribute to the development of an improved microscopic understanding of elementary steps of energy conversion in materials with tunable excitations and interactions. You are expected to participate in the structured doctoral program of the CRC and to enjoy an intense collaboration with the other PhD students of the collaborative research center. For further detailed information, please refer to our website: www.sfb1073.uni-goettingen.de. In your application, please mention explicitly the project C02 (group Jooss).

Job profile:

Project C02 investigates the active state of perovskite manganite catalysts during photo- and electrochemical water splitting processes. The long-term goal of the project is the identification of reaction mechanisms on strongly correlated oxide surfaces which allows for water splitting with minimum overpotentials. In order to study performance of different manganite based electrode materials, you will develop two- and three-electrode setups for in situ environmental transmission electron microscopy (E-TEM) investigations of the active catalyst state. In close collaboration with the Techert group and other CRC partners, you will analyze manganite electrode materials with different spectroscopy methods.

We are looking for excellent PhD candidates with an above-average university degree in physics, chemistry or materials sciences. You dispose of a very good knowledge in English both in writing and speaking. Good German language skills are desirable. You are enthusiastic about the subject and you are interested in understanding scientific mechanisms in detail. You are a team-worker and you possibly dispose of the appropriate prior skills in transmission electron microscopy techniques and knowledge about material properties of perovskite oxides.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a greater number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference. Please send your application either in electronic form or via mail – only in copies – by 16 July to the Georg-August-Universität Göttingen:

Contact: Georg-August-Universität Göttingen
SFB 1073 - Office
Friedrich-Hund-Platz 1, 37077 Göttingen
eMail: SFB1073@ump.gwdg.de

If you have any questions, feel free to contact the head office or participating group leaders. For contact data please refer to our homepage.