

Personalservice (PSE) (/)

Scientist and Project Manager in Chemistry / Chemical Engineering/ Physics (f/m/d)

Job description

In the working group "Chemical Engineering and Catalysis" (Prof. J.-D. Grunwaldt), we deal with the development, testing and detailed spectroscopic analysis of heterogeneous catalysts, particularly including those for the sustainable production of chemicals and for energy storage (more INFOs: www.itcp.kit.edu/grunwaldt (<http://www.itcp.kit.edu/grunwaldt>)). The DFG Priority Programme SPP2080 "Catalysts and Reactors under Dynamic Operating Conditions for Energy Storage and Conversion" (www.spp2080.org (<http://www.spp2080.org>)), which is now in its second funding phase, also strives in this direction. In this highly relevant field of catalysis, we are investigating catalysts for electrolysis/electrochemistry or CO₂ hydrogenation – in a network spanning across the whole of Germany.

As part of your employment, you will have the opportunity as a manager to help with coordinating new activities of the 2nd funding period of SPP2080 on a German and European level and at the same time to work scientifically in this

field. The tasks within the context of the advertised position further include the investigation of catalysts under reaction conditions using the latest spectroscopic methods, in particular at synchrotron radiation sources, as well as participation in related coordination initiatives. You also have the opportunity to conduct your own research on functional materials in the Grunwaldt group, to participate in teaching and to present contributions at conferences.

Personal qualification

- Completed or nearly completed PhD, very good university degree in chemistry, chemical engineering, physics or related disciplines.
- Very good knowledge of heterogeneous catalysis/electrocatalysis. You have gained insight into the current reaction mechanisms of environmentally relevant reactions (CO₂ hydrogenation, power-to-X, reduction of emissions).
- Experience in in situ and operando spectroscopy, as well as analysis of spectroscopic data.
- Fluent in English, German is an advantage
- You like to work in a team, like to tackle new things and your strong communication skills and initiative characterize you.
- Proven networking skills (e.g. active participation in collaborative projects) as well as first experiences in project management and supervision of students are an advantage.

Salary

The remuneration occurs on the basis of the wage agreement of the civil service in TV-L E13, depending on the fulfillment of professional and personal requirements.

we offer

Organizational unit

Institute for Chemical Technology and Polymer Chemistry (ITCP)

Starting date

zum nächstmöglichen Zeitpunkt / as soon as possible

Contract duration

3 years

Application up to

July 22, 2022

Contact person in line-management

For further information, please contact Prof. Dr. Grunwaldt, email: grunwaldt@kit.edu (<mailto:grunwaldt@kit.edu>).

Application

Please send your application including a cover letter, your CV, research profile and catalysis/spectroscopy knowledge as well as all certificates/reference letters in electronic form as one pdf-file to Andrea Koller, email: andrea.koller@kit.edu (<mailto:andrea.koller@kit.edu>)

vacancy number: 2139/2022

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

Recognized severely disabled persons will be preferred if they are equally qualified.

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