

At the Institute of Chemical Technology and Polymer Chemistry (ITCP) we are currently seeking to recruit, limited to two years, an

### **Academic Employee / Postdoc (m/w/d) Dynamics of Catalysts and Reactors in the heterogeneous Catalysis**

The Chair in Chemical Technology and Catalysis (ITCP, [www.itcp.kit.edu/grunwaldt](http://www.itcp.kit.edu/grunwaldt)) focuses on the development, testing and detailed spectroscopic analysis of heterogeneous catalytic systems, in particular, under dynamic reaction conditions. A thorough understanding of the catalysts can be achieved *via* the so-called *operando* methods, *i.e.* during reaction. This topic is addressed within the frame of the DFG priority program 2080 "Catalysts and reactors under dynamic conditions for energy storage and conversion" ([www.spp2080.org](http://www.spp2080.org)), which is coordinated by the ITCP chair ([www.itcp.kit.edu/grunwaldt](http://www.itcp.kit.edu/grunwaldt)).

Job responsibilities:

- Investigation of catalysts under reaction conditions by means of modern spectroscopic methods, especially at synchrotron radiation sources.
- Support and coordination of projects within the SPP2080, as part of new coordinated initiatives at the German and European level.
- Planning of new projects with university and industry partners, project application and acquisition.
- Supervising of master and PhD students

**You hold** a very good PhD degree in chemistry, chemical engineering, or physical chemistry. You have some experience in project management and, ideally, in supervising students. You own very good knowledge in the area of catalysis and kinetics, nanoparticle design, *in situ* and *operando* spectroscopy and in the analysis of spectroscopy data. You have insight into the reaction mechanisms of current environmentally relevant reactions (emission reduction, CO<sub>2</sub> hydrogenation, power-to-X), interest in interdisciplinary research topics, as well as very good German and English language skills.

**We offer** an attractive and modern working environment with access to the excellent infrastructure of KIT, a diverse and responsible employment, a wide range of training opportunities, as well as a supplementary pension according to VBL, flexible working time models, access to the JobTicket (BW) and the KIT cafeteria.

We strive for an equal opportunity driven occupation of the open positions (m/ w/ d) and would therefore be particularly pleased to receive applications from women candidates.

Upon suitable qualifications, candidates with disabilities will be given preference.

Please apply **online** (<http://www.pse.kit.edu/job/1017/2019>) until **17.03.2019** using the vacancy number **1017/2019** and reference number **8** via Mrs. Wasmus, Personal Service, Karlsruher Institute of Technology, South Campus, Kaiserstraße 12, 76131 Karlsruhe. For further inquiries about the position, please contact Prof. Dr. Jan-Dierk Grunwaldt, Tel. 0721/608 42120.



Further information can be found on our website: [www.kit.edu](http://www.kit.edu).

KIT - The Research University in the Helmholtz Association