Scientific Researcher (f/m)
“Preparation of catalytic materials using novel synthesis techniques”

Job description: The Chair in Chemical Technology and Catalysis (www.itcp.kit.edu/grunwaldt) focuses on the design, testing and in-depth characterization of heterogeneous catalysts. Our research focus ranges from exhaust gas aftertreatment and fine chemical synthesis, to renewable energy applications including biomass conversion. The group operates in close collaboration with other leading figures in both science and industry, offering a complete approach ranging from fundamental studies to industrial applications. The exhaust gas group which is jointly lead by Prof. Deutschmann and Prof. Grunwaldt is engaged in understanding and development of conventional and novel exhaust gas catalysts. It is embedded in the “Exhaust Gas Center Karlsruhe”, which is equipped with modern test benches and a broad variety of state-of-the-art characterization techniques. Preparation of new materials is an important topic in connection with characterization and catalyst testing. This is the focus of the present position and the position will be linked to several research projects focusing on the development of next generation exhaust gas catalysts.

You will supervise bachelor, master and PhD students and the study will be closely coordinated with external project partners from industry and academia. You will therefore work in a multidisciplinary environment, in close collaboration with the group and our external partners. The position will particularly involve the use of synchrotron radiation, therefore you will have the opportunity to conduct experiments at world-leading large-scale facilities.

Qualification: The ideal candidate should hold a PhD Degree in Chemistry or Materials Science, work experience from different laboratories also outside Germany and experience in presenting the research work at conferences. You should have published in peer-reviewed journals regularly over the past years. Previous experience in the following topics is needed: solid-state chemistry (e.g. colloidal, flame and hydrothermal synthesis), characterization including synchrotron-based techniques and if possible catalysis. You should have experience as a lecturer and experience in collaborations with industry is an appreciated add-on. Naturally, you have a strong motivation for research and good experimental skills. The candidate should be fluent in verbal and written English and be able to work independently as well as part of a team.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L.

Institute: Institute of Chemical Technology and Polymer Chemistry (ITCP)
Contract duration: limited
Starting date: as soon as possible
Application up to: 05.11.2017
Contact person in line-management: Prof. Jan-Dierk Grunwaldt, Tel: (+49) 721/608-42120, email: grunwaldt@kit.edu
Application: Please send your application (CV, transcripts and certificates, names of references) by email to: grunwaldt@kit.edu

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.