

**Jobnumber: 32221**  
**Institutskennziffer: 542110**



## **Researcher (w/m/d)** **PostDoc - Outstation at the MLZ in Garching near Munich, Germany** **Institute of Crystallography**

### **Our Profile**

As part of a research project funded by the German Research Foundation (DFG), the structure, dynamics and electronic order states of non-stoichiometric oxides with perovskite or Ruddlesden-Popper-phase structures are to be investigated using neutron and X-ray diffraction (synchrotron). The project is a Franco-German collaboration of RWTH Aachen University, the ICGM of the Université Montpellier and the ICMCB in Bordeaux. The hiring takes place at the RWTH Aachen, the place of employment is the MLZ in Garching. The research neutron source Heinz Maier-Leibnitz (FRM II) at the Heinz Maier-Leibnitz Zentrum (MLZ) in Garching near Munich is one of the most powerful and modern research neutron sources worldwide. Since many years the RWTH Aachen University in collaboration with the Jülich Center for Neutron Science (JCNS) operates there the single-crystal diffractometer HEiDi. The instrument provides scientists all over the world with valuable information on the atomic and magnetic structures of solids. You will be given the opportunity to familiarize yourself with the environment of a nuclear facility.

### **Your Profile**

Applicants must have a doctorate/Ph.D. or equivalent.

You have a university degree (master or comparable) in one of the following areas: chemistry, physics, crystallography or materials science and successfully completed your doctorate - preferably in one or more of the scientific fields related to the project. Experience with methods of structure determination and especially with programs for the structure analysis of diffraction data is required.

Knowledge of English is essential, knowledge of French is desirable. We assume a high level of readiness for further training as well as an independent and goal-oriented way of working. You have a strong ability to work in a team and can participate in an interdisciplinary manner within the project group. The high security standard for access to a nuclear facility such as the FRM II generally requires a nuclear reliability test. The tasks also include access to radiation protection areas.

### **Your Duties and Responsibilities**

As scientific member of our project, you will contribute significantly to both its scientific success and the further development of the HEiDi instrument. Your scientific tasks include the planning, implementation and evaluation of investigations relevant to the project, for example high-resolution structural examinations on selected samples in special reaction cells in different gas atmospheres as well as different temperatures and oxygen concentrations. In addition, TEM tests for defect analysis of the samples are also to be carried out. You are also responsible for the design or further development, procurement and commissioning of the components required for the planned high-temperature experiments. You will be supported in your tasks by other members of the project. The transnational nature of the project requires a limited amount of travelling to coordinate the work packages with the project partners and to carry out individual experiments.

### **What We Offer**

The position is based on a fixed-term contract (24 months) and to be filled at the earliest possible date. The contract ends on 31.01.2024 the latest.

This is a full-time position.

The salary corresponds to pay grade EG 13 of the German public service salary scale (TV-L).

RWTH is a certified family-friendly University. We support our employees in maintaining a good work-life balance with a wide range of health, advising, and prevention services, for example university sports. We also offer a comprehensive continuing education scheme

and a public transportation ticket available at a significantly reduced price.

RWTH is an equal opportunities employer. We therefore welcome and encourage applications from all suitably qualified candidates, particularly from groups that are underrepresented at the University. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of national or ethnic origin, sex, sexual orientation, gender identity, religion, disability or age. RWTH is strongly committed to encouraging women in their careers. Female applicants are given preference if they are equally suitable, competent, and professionally qualified, unless a fellow candidate is favored for a specific reason.

As RWTH is committed to equality of opportunity, we ask you not to include a photo in your application.

You can find information on the personal data we collect from applicants in accordance with Articles 13 and 14 of the European Union's General Data Protection Regulation (GDPR) at <http://www.rwth-aachen.de/dsgvo-information-bewerbung>

#### **Contact**

If you have any questions, please contact

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Please send your application by August 31, 2020 to

**RWTH Aachen University**

**Lehrstuhl und Institut für Kristallographie**

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Applicants are invited to submit their applications via email to [martin.meven@ifk.rwth-aachen.de](mailto:martin.meven@ifk.rwth-aachen.de). For data protection reasons, however, we recommend sending applications via mail.