

**Jobnumber: 22400**

**Institutskennziffer: 542110**



## **Research Assistant/Associate located at MLZ in Garching**

**Institute of Crystallography**

### **Our profile:**

The Institute of Crystallography at RWTH Aachen University and the Jülich Centre for Neutron Science (JCNS) jointly operate two Single-Crystal Diffractometers (SCD) at the Heinz-Maier-Leibnitz-Zentrum (MLZ) in Garching near Munich. These diffractometers, HEiDi and POLI, are two of the most state-of-the-art scientific instruments worldwide for detailed analysis of crystalline and magnetic structures using neutron diffraction. For their scientific co-supervision (second instrument scientist) - in particular of the SCD HEiDi - we are looking for a scientist (PostDoc) on a full-time position from June 1st, 2018.

### **Your profile:**

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

Requirements for admission are a university degree (Master or equivalent) in physics, chemistry, materials science or similar and a doctorate in the field of crystallography. Ideally, she or he already has some experience in neutron scattering, like single-crystal diffraction or studies on magnetic structures. We expect a strong interest in instrumental and methodical development. Basic knowledge of at least one programming language is also welcome. Good communication and team skills complete her/his profile. Source and instruments operate on a 24h/7d basis; readiness to be present outside regular office hours is expected. Because of the international working environment, excellent English skills are compulsory.

Since this position is located in a nuclear facility, a security check will be performed. The successful candidate is aware of her/his responsibility and willing to co-operate closely with the radiation protection team.

### **Your responsibilities:**

Your responsibilities include:

- The qualified scientific and metrological advice and support to external and internal users of the diffractometers.
- The participation in the preparation, implementation and evaluation of experiments and the publication of scientific results.
- The methodological and scientific development of the instruments and their components.

She/he will be involved, in close co-ordination with the first instrument scientist(s) and the other staff members, in the scheduling of the measuring time of the users and the provision of specific sample environments, resources and equipment required for the individual user experiments. In addition, she/he will be responsible for the instruction of the users at the instruments and participate in the observance of the work safety, as well as the legal conditions and regulations (nuclear facility, radiation protection).

In addition, she/he will have the opportunity to conduct her/his own research. In particular, she/he will gain access to the various methods of investigation at the institute in Aachen itself, as well as the scattering methods with neutrons at the outstation in Garching. To a lesser extent, she/he will participate in teaching assignments, like conducting workshops or guiding students and Ph.D. students. In addition, she/he will represent the instruments operated by RWTH Aachen University and JCNS and related activities at scientific conferences, etc.

### **What we offer:**

The position is offered on a temporary contract for initially 3 years and to be filled by June 1, 2018.

This is a full-time position.

The salary corresponds to level EG 13 TV-L.

RWTH Aachen University is certified as a "Family-Friendly University". We particularly welcome and encourage applications from women, disabled persons and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

**Your contact person**

For further details, please contact

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Please send your application by April 15, 2018 to

**Prof. Dr. Georg Roth**

**Institut für Kristallographie**

**RWTH Aachen**

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You can also send your application via email to [roth@ifk.rwth-aachen.de](mailto:roth@ifk.rwth-aachen.de). Please note, however, that communication via unencrypted e-mail poses a threat to confidentiality as it is potentially vulnerable to unauthorized access by third parties.