Tenure-track Professorship for Interface Processes (W1)

Job description:

The Institute for Applied Materials (IAM) of Division III of KIT is a cross-departmental institute for the education of engineers and conducts research in the area of materials science and technology. The Institute for Applied Materials – Energy Storage Systems (IAM-ESS) invites applications for a Tenure-track Professorship for Interface Processes (W1).

This junior professorship (W1) with tenure track is funded from the “Post lithium storage (POLiS)” cluster of excellence.

Research covered by this professorship contributes to the development of novel electrochemical energy storage systems of high performance and sustainability.

The professorship is affiliated to the KIT Department of Mechanical Engineering as far as academic education and academic matters are concerned. According to Art. 2, cl. 1, no. 4, LVVOBW (Teaching Workload Ordinance), the teaching workload will be four teaching hours per week per semester until intermediate evaluation and six teaching hours per week per semester afterwards. You are also supposed to assume an adequate role in the university self-administration.

Qualification:

Candidates are expected to have outstanding knowledge in the area of surface analysis at electrodes/electrolyte interfaces and to apply it for investigating the relevant functional and fatigue mechanisms in electrochemical energy storage systems. You are already working on new concepts of materials to enhance performance data of batteries beyond lithiumion technology and will continue this work within the joint POLiS cluster of excellence of Ulm University and KIT. You will develop the measurement methodology and evaluation of surface-sensitive spectroscopic characterization methods. At the Karlsruhe Nano Micro Facility (KNMF), you are responsible for surface-sensitive spectroscopies at the “Laboratory for Microscopy and Spectroscopy.” This also includes the coordination of inquiries by external cooperation partners.

According to Art. 51, LHG (Law of Baden-Württemberg on Universities and Colleges), applicants should have completed their university studies, possess the required pedagogic qualification, and be capable of doing scientific work, which is usually reflected by an outstanding doctoral degree. Other employment criteria are obvious from the “Qualitätssicherungskonzept für Juniorprofessuren und Tenure-Track-Professuren am Karlsruher Institut für Technologie (KIT)” (Quality assurance concept for junior professorships and tenure-track professorships at Karlsruhe Institute of Technology).
In addition, candidates are expected to successfully acquire an externally evaluated junior research group and to have spent several years abroad for research work. At the time of application of this vacancy notice, not more than half of the time of heading the junior research group should have passed.

**Institute:**

**Contract duration:**
According to Art. 15, par. 2, KIT Act, employment will be limited to six years with the status of either civil servant (“Beamter”) or employee (“Angestellter”) being assigned. In the fourth year, an intermediate evaluation will be made. In case of a positive final evaluation, appointment as a tenure-track professor (W3) for interface processes will follow. The evaluation process and evaluation criteria are outlined in the quality assurance concept mentioned above. Own visible contributions to the research area, internal and external interdisciplinary collaboration projects, acquisition of third-party funding, successful teaching, supervision of young scientists, and openness with respect to innovation will be of particular importance.

**Starting date:**
As soon as possible

**Application up to:**
April 26, 2020

**Application:**
Kindly send your application with the relevant documents (including CV, detailed list of previous employments, research plan, description of the previous and planned teaching activities as well as a list of publications) (preferably by email in the form of a single pdf file) to the Bereichsleiter “Maschinenbau und Elektrotechnik” (Head of the KIT Division of Mechanical and Electrical Engineering), 76128 Karlsruhe, Germany, email: dekanat@mach.kit.edu by April 26, 2020.

For more information on this post, contact Professor Dr. M. Heilmaier (IAM-WK), email: martin.heilmaier@kit.edu.

KIT wishes to increase the proportion of female professors and, hence, strongly encourages qualified women to apply.

Applicants with disabilities, who have the same qualification, will be preferred.

KIT is certified as a family-friendly university and offers part-time employment, leave for family reasons, dual-career services, and accompanying coaching to enhance compatibility of job and family. For your career, we offer coaching and mentoring services.