Tenure-track-professorship in experimental solid-state physics (W1)

Job description: We are seeking for a scientist in an early career stage with the potential to contribute to the field experimental solid-state physics in research and teaching. The expected research supports discovery of novel materials with prominent quantum effects (strongly correlated electrons and/or topological materials) and comprises fundamental studies of their electronic properties. The successful applicant has excellent knowledge of transport and thermodynamics methods for the study of quantum materials under extreme conditions (in particular uniaxial stress or pressure), as well as experience with materials synthesis and structural characterization. The research activities shall contribute to the topic ‘Quantum Materials’ of the Helmholtz Association ‘Natural, Artificial and Cognitive Information Systems’ program that will start in 2021. Cooperation within the planned Transregio Collaborative Research Center ”Elastic Tuning and Response of Electronic Quantum Phases of Matter” with the Universities of Mainz and Frankfurt is desired.

The professorship is embedded within the KIT Department of Physics. The tenure-track-professorship (W1) implies teaching responsibilities of 4 hours per week during the semester and administrative obligations. Non-German-speaking applicants should be prepared to learn the language and teach in German after a reasonable time.

Qualification: According to § 51 of the Universities Act (Landeshochschulgesetz) of the state of Baden-Württemberg the recruitment requirements include a university degree, pedagogical aptitude and a special aptitude for scientific work, which is usually demonstrated by a doctorate of outstanding quality. Further requirements for employment are found in the “Qualitätssicherungskonzept für Juniorprofessuren und Tenure-Track-Professuren am Karlsruher Institut für Technologie (KIT)”. Additionally we expect that you have already obtained funding for a junior research group the duration of which has expired by less than one half.

Institute: Division V – Physics and Mathematics, KIT Department of Physics, at the planned Institute of Quantum Materials and Technology (IQMT)

Contract duration: Employment will initially be for a period of six years as a temporary civil servant or as an employee (according to “Beurlaubungsmodell” § 15 Abs. 2 KIT-Gesetz); in the fourth year a midterm evaluation will be carried out. In case of a positive final tenure evaluation, you will be appointed to a permanent full professorship (W3) for experimental solid-state physics. The evaluation procedure and general criteria are defined in the above mentioned "Qualitätssicherungskonzept". Of particular importance are own visible contributions to the field of
research, internal and external interdisciplinary cooperations, third-party funding, successful teaching, supervision of young scientists, and openness towards innovation.

**Starting date:** As soon as possible

**Application up to:** December 29th, 2019

**Application:** Qualified candidates should submit a curriculum vitae, a detailed list of previous employment times, a list of publications, as well as research and teaching statements to: Dekanat der KIT-Fakultät für Physik, Karlsruher Institut für Technologie (KIT), 76128 Karlsruhe, Germany, preferably by email with a single pdf-file attached to dekanat@physik.kit.edu. For further information about this position please contact Prof. Dr. M. Le Tacon (IFP), email: matthieu.tacon@kit.edu.

KIT wishes to increase the proportion of female professors and, hence, strongly encourages qualified women to apply. Handicapped applicants having the same qualification will be preferred.