W3-Professorship for Data Processing and Electronics

Job description: We are looking for an internationally recognized personality who represents and further develops the fields of detector instrumentation, electronics, and data acquisition / processing for application in basic physical research at the forefront of research and teaching. The IPE plays a leading role in the development of readout and control systems for superconducting quantum sensors and qubits and focuses on research and development in high-performance instrumentation in particle and astroparticle physics, such as at CMS, PANDA, KATRIN, IceCube or DARWIN, in ultra-fast beam diagnostics, and of synchrotron radiation experiments. Further activities include the development of power electronics and battery systems for stationary and mobile applications as well as a variety of technology transfer projects. The IPE covers a broad range of skills in detector development, assembly and connection technologies, in analog and high-frequency electronics, massively parallel digital electronics and their efficient programming, as well as in the development of complex algorithms for image reconstruction and data analysis. The institute has unique infrastructures and laboratories and is in charge of setting up the KIT laboratory for superconducting sensors. With its competences, the IPE conducts research in the Helmholtz Research Field Matter and plays a key role in shaping one of its programs.

At KIT the successful candidate will be met by an excellent interdisciplinary environment at the interface between engineering and natural sciences. The holder of the position cooperates closely with his / her colleagues at KIT and especially in the KCETA Center of Excellence and the KSETA Graduate School.

Qualification: The recruitment takes place in accordance with Section 15 (2) of the KIT Act. In teaching, committed participation in existing and new courses in German and English in physics, electrical engineering and information technology as well as in related courses of other KIT faculties is expected. Habilitation or equivalent work experience that includes didactic skills is required. Teaching experience is desired. The employment requirements of Section 47 of the State University Act in connection with Section 20 of the KIT Act apply.

Institute: Institute of Data Processing and Electronics (IPE)

Contract duration: permanent

Starting date: at the earliest convienience

Application up to: February 26th, 2021
Contact person in line-management: Prof. Dr. Thomas Müller, e-mail: thomas.mueller@kit.edu.

Application: Applications with the usual documents (including curriculum vitae, research plan, description of previous and planned teaching activities and a list of publications) are to be sent to the Dean's Office of the KIT Department of Physics, Division V, Karlsruhe Institute of Technology (KIT), 76128 Karlsruhe, email: dekanat@physik.kit.edu.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Recognized severely disabled persons will be preferred if they are equally qualified.

The processing of personal data by the Karlsruhe Institute of Technology (KIT) is carried out according to the Privacy Policy.

The KIT is certified as a family-friendly university and offers part-time employment, leaves of absence, a Dual Career Service and coaching to actively promote work-life-balance.

Karlsruhe Institute of Technology
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