W3-Professorship for Product Engineering and Drive Systems
(successor Prof. Albert Albers)

Job Description:
The candidate’s research profile should cover both fundamental and applied research. Tasks will include academic education and research in the areas of product engineering and technical systems with the following foci:

- Methodological product engineering, and in particular, methods and processes of product generation engineering;
- Development and validation of systems of systems (SoS) based on system theory concepts using the potential of digitalization;
- Synthesis and validation of new technical systems, such as drive systems, in virtual and real experiments.

Teaching in both German and English will involve major participation in the bachelor’s and master’s programs of mechanical engineering, chemical engineering, mechatronics, and information technology. Among others, candidates are expected to contribute to the mandatory four-semester bachelor’s course “Maschinenkonstruktionslehre” (Mechanical Design), to carry out the mandatory masters course “Methoden und Prozesse der PGE – Produktgenerationsentwicklung” (Methods and Processes of PGE - Product Generation Engineering), and to participate in the Mechanical Engineering (International) program. A full commitment to the master programs, and project-oriented teaching, is desired. A major contribution to innovation through the transfer of fundamental research to applications, within collaboration projects with industry, and thus, the acquisition of third-party funding, is expected.

The professorship will be associated with membership in the collegial management board of KIT’s Institute of Product Engineering (IPEK). A close cooperation, and coordination of research and academic education activities, with IPEK’s chair for power tools and machine elements, is expected.

Qualification:
Applicants are expected to have contributed excellent achievements in several of the areas mentioned above, reflected in high-ranking scientific publications and/or internationally visible patents, and to comprehensively represent these topics in academic education and research. Candidates should have worked in industry for several years and be experienced in the execution of research and development projects, and in staff management.

Interdisciplinary collaboration with other KIT institutes at the interface between product engineering and production technology, in the Mobility Systems Center, and in academic self-administration, is desired.
The candidate’s experience in, and willingness to actively acquire public and private third-party funds, will be indispensable. Employment conditions as outlined in Article 47, LHG (Act of Baden-Württemberg on Universities and Colleges) in conjunction with § 20 KITG (KIT-Gesetz) shall apply.

**Institute:** IPEK – Institute of Product Engineering

**Contract Duration:** Permanent

**Starting date:** Earliest possible date

**Application up to:** January, 10th 2021

**Application:** Applications should contain all relevant documents (CV, list of publications, degree certificates, description of previous research and teaching activities, three own contributions of high impact in the areas of research, academic education, or innovation, and a teaching and research concept for the professorship). Send the application package to Karlsruhe Institute of Technology (KIT), Division III Mechanical and Electrical Engineering, Prof. h.c. Dr. Joachim Knebel, Campus South, Dean’s Office of the KIT Department of Mechanical Engineering, 76131 Karlsruhe, preferably in the form of a single PDF file mailed to dekanat@mach.kit.edu.

As KIT wishes to increase the proportion of female professors, applications from qualified women are particularly encouraged.

Recognized severely disabled persons will be preferred if they are equally qualified.

Karlsruher Institut für Technologie
Personalservice