**Professorship (W3) for Laser-based Particle Accelerators**

**Job description:**
We are looking for an experienced scientist to advance and represent the research area of compact accelerator technologies at KIT. A focus will be laser-based technologies, investigations of the underpinning beam dynamics, optimization of the corresponding laser systems and system reliability of novel compact facilities in experiment and simulation. The appointed professor is expected to develop the scientific profile of the IBPT’s “Accelerator R&D and Operation I” department and to participate in the Helmholtz Association of German Research Centres’ programme-oriented funding, in particular in the programme “Matter and Technologies”. In addition to new accelerator technologies, research topics and tasks in the programme include methods of beam control and diagnosis as well as the design and operation of the institute's accelerator test facilities.

KIT offers an outstanding interdisciplinary environment at the interface of the engineering and natural sciences. The incumbent will cooperate closely with colleagues of the Accelerator Technology Platform (ATP) at KIT. He/she raises third-party funds from national and international sources and actively supports the transfer of scientific/technical results into applications. In academic education, candidates are expected to actively participate in existing and newly established German and English study programs offered by the KIT Department of Physics.

The professorship is associated with leading a department of IBPT. The recruitment takes place in the suspension model in accordance with Art. 15 § 2 KIT Act (“Beurlaubungsmodell gemäß § 15 Abs. 2 KIT-Gesetz”).

**Qualification:**
The candidate has an outstanding scientific record in the field of laser-based particle acceleration, excellent teaching skills and leadership experience. Further prerequisites are experience in the operation of large-scale facilities, in application-oriented research and in the acquisition of third-party funds. Experience in technology transfer is desirable.

According to § 47 Landeshochschulgesetz (LHG) of the State of Baden-Württemberg, a completed university degree, pedagogical aptitude, which as a rule must be demonstrated by experience in teaching or training, and a special aptitude for scientific work, which as a rule is demonstrated by the quality of a doctorate, are required.

**Institute:** Division V – Physics and Mathematics – Institute for Beam Physics and Technology (IBPT), KIT Department of Physics

**Contract duration:** unlimited
Starting date: as soon as possible

Application up to: May 11\textsuperscript{th} 2020

Contact person in line-management: For further information about this position please contact Prof. Dr. Anke-Susanne Müller, email: anke-susanne.mueller@kit.edu.

Application: Kindly send your application including the usual documents (i.e., a CV, research plan, statements of previous and anticipated teaching activities and a list of publications) before May 11, 2020 (preferably in electronic form as a single pdf document) to: Dekanat der KIT-Fakultät für Physik, Karlsruher Institut für Technologie (KIT), 76128 Karlsruhe, Germany, email: dekanat@physik.kit.edu.

Karlsruhe Institute of Technology
Personnel Department

KIT aims to increase diversity at the academic management level and in particular the proportion of female professors and therefore welcomes applications from women.

KIT promotes the compatibility of family and career and offers support within the scope of its Dual Career Program.

Applicants with a disability having the same qualification are given preferential consideration