The Karlsruhe Institute of Technology (KIT) is the result of the merger of the Universität Karlsruhe (TH) and the Forschungszentrum Karlsruhe. It is a unique institution in Germany, which combines the missions of a university with those of a national research center of the Helmholtz Association. With 9000 employees KIT is one of the largest research and education institutions worldwide.

In the **Department of Electrical Engineering and Information Technology** of the Karlsruhe Institute of Technology the position of a

**Professor (W3) for Detector Technology and ASIC Design**

combined with the position of a

**Founding Director of the KIT ASIC and Detector Laboratory**

is to be filled as soon as possible. The professorship is located at the Institute for Data Processing and Electronics.

We are looking for candidates which combine outstanding scientific credentials and experience in leading scientific groups with excellent didactical skills. Several years of experience in research and teaching as well as acquisition of third-party funding are required. Experience in the instrumentation of large-scale research experiments is an advantage.

Applicants should have experience in several of the following fields:
- Highly integrated mixed-signal CMOS technologies
- Monolithic Active Pixel Sensors (MAPS) and alternative sensor concepts
- 3D integration and packaging and interconnect technologies for detector instrumentation
- Applications of the aforementioned technologies in large-scale experiments of astroparticle physics, particle physics, in the research with photons, neutrons and ions as well as in optics and photonics, medical imaging, etc.

The successful applicant will build-up the ASIC and Detector Laboratory and boost the development of innovative detector technologies. He/she will be able to draw on the infrastructure of the institute, in particular the packaging and interconnect facilities. The position offers an excellent research environment with many opportunities for collaboration within the department and other structures of KIT. This includes the KIT Center of Elementary Particle Physics and Astro-Particle Physics (KCETA) and the DFG graduate school KSETA. Intensive collaboration in the programs of the Helmholtz Association and interdisciplinary collaboration with the partners of the Helmholtz Portfolio “Detector Technologies and Systems Platform” (Helmholtz Centers, Universities and international partners) is expected.

Commitment and participation in existing and new lecture courses of the department is expected. This includes basic courses like “Design of analog and digital circuits” as well as specialized courses or block courses within KSETA.

Applicants must have the degree of Habilitation or demonstrate equivalent scientific qualifications as well as experience in teaching.

KIT aims to increase the number of female professors and especially welcomes applications from women. Handicapped persons with equal qualifications will be preferred.

Applications including CV, list of publications, summary of research and teaching activities and prints of the five most significant publications should be sent by June 14, 2013 to the **Dean of the Department of Electrical Engineering and Information, Karlsruhe Institute of Technology (KIT), Campus South, 76128 Karlsruhe.**