Potential candidates are expected to address research, teaching, and innovation in the area of electronic components and systems for future technologies. They should have sufficient experience and an excellent scientific reputation in one or more fields of electronic technologies and systems integration, such as:

- Printable electronics, flexible and wearable electronics
- Modeling and simulation of novel components and circuits
- Hybrid electronics, e.g. in combination with CMOS technologies
- Circuits for hardware security and cryptography

This interdisciplinary professorship will combine physics/electrical engineering/informatics with material science, with the aim of studying future electronic technologies and system solutions, and of integrating them into new information technologies.

The recruitment takes place in the suspension model in accordance with Art. 15 paragraph 2 KIT Act (“Beurlaubungsmodell”).

Candidates should have excellent didactic skills, and experience in leading an active scientific group. Expertise in applied research, in the acquisition of third-party funding in large coordinated programs, among others, as well as in technology transfer (e.g. via startups) is desired. KIT offers an outstanding interdisciplinary environment at the interface of the engineering and natural sciences, in particular within the KIT Centers for Information-Systems-Technologies (KCIST) and Materials. Within the Helmholtz Research Field Key Technologies / Information, applications such as Internet of Things (IoT), Cyber Physical Systems (CPS), sensor technology, and quantum information technologies are addressed in a collaborative approach.

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 Electrical Engineering and Information Technology, as well as in related programs offered by other departments of KIT. Apart from practice-oriented and in-depth courses in the area(s) covered by the professorship, this also includes lectures on fundamental topics within the bachelor programs. Teaching activities are to address areas such as printed electronics, VLSI technologies, solid-state physics, semiconductor technology, components, low-power design, device modeling, and simulation.

The employment conditions as outlined in Art. 47 LHG (Law of Baden-Württemberg on Universities and Colleges) shall apply.
Institute: Division V – Physics and Mathematics, KIT Department of Physics, in combination with leading a research group at the Institute of Nanotechnology (INT) within KIT’s Helmholtz research campus, and in Division III – Mechanical and Electrical Engineering, KIT Department of Electrical Engineering and Information Technology.

Contract duration: permanent

Starting date: Employment is to start at the earliest date possible.

Application up to: February 17, 2020

Application: Kindly send your application, including the usual documents in English and, if applicable, German (i.e. CV, list of publications, degree certificates/certificates, documentation of previous research and teaching activity, as well as the research and teaching concept for the above professorship) in written and electronic form (as a single pdf file) to the Dean of the KIT Department of Electrical Engineering and Information Technology, Karlsruhe Institute of Technology (KIT), Kaiserstr. 12, 76131 Karlsruhe, Germany, email: dekanat@etit.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.