Research Assistant (f/m) in the area of “Design Methodologies for Printable Electronics”

Job description: The possibility to pursue a Doctorate (PhD) degree exists.

The notion of printable electronics encompasses any printing technologies or processes to create electronic devices, circuits and systems. Printed electronics will complement rather than compete with silicon-based electronics. It aims at completely different application markets where solution-processable, simple and laterally structured circuitry, such as energy storage devices, radio-frequency identification tags (RFID) tags on plastic foils, flexible displays, artificial skins, electronic textiles, electronic toys etc. will be manufactured with high throughput.

The goal of this research project is to develop Process Design Kit (PDK) and physical design automation techniques towards an EDA flow for printable electronics.

This PhD research will be done in collaboration with printed device modeling and characterization team at KIT.

Qualification: The applicants should hold a university degree (Diploma or Masters) in the areas of Computer Science or Electrical Engineering and should also have strong English communication skills (both Oral and Writing). Suitable candidates must possess a strong willingness for research exploration, independence, self-learning, creativity, teamwork and communication skills as well as the willingness in the preparation of research proposals.

Experience and solid background in VLSI circuit design, electronics, circuit simulation, digital design and electronic design automation (EDA) tools is necessary.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L. Salary will be according to German public service positions.

Institute: Department of Computer Science, Chair for Dependable Nano Computing (CDNC)

Contract duration: limited

Starting date: as soon as possible

Application up to: 21.02.2016

Contact person in line-management: For further information please contact Prof. Dr. Mehdi B. Tahoori, Tel.: 0721/608-47778, Email: mehdi.tahoori@kit.edu or Prof. Dr. Jasmin Aghassi, Tel.: 0721/608-28318, Email: jasmin.aghassi@kit.edu
Application: Candidates with excellent grades are invited to send their application materials including resume and university transcripts preferably to: Prof. Dr. Tahoori, Email: jasmin.aghassi@kit.edu and to Prof. Dr. Aghassi, Email: tahoori@ira.uka.de

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.