Faculty of Electrical and Computer Engineering

The Institute of Electromechanical and Electronic Design offers a project position as

**Research Associate / Postdoc (m/f/x)**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible**. The position comprises 80% of the full-time weekly hours and is limited until March 31, 2025. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

**Tasks:** The Institute’s research and teaching activities include electronic design automation through the development of algorithms, methods and software tools. The focus of your work will be to support the design of novel long, smart, and flexible electronic systems as part of a research project. These systems are based on flexible printed circuit boards (PCBs) and are intended to replace conventional cables, e.g. in catheters, and enable new products for applications with complex electrical connections. The main task is to develop a new software tool for geometric modeling and electrical simulation of these three-dimensionally shaped flexible electronics. Design rules for flexible electronics are then created based on simulation results.

**Requirements:**

- very good to good university and, if applicable, PhD degree in electrical engineering, computer science or a comparable discipline
- in-depth knowledge of microelectronic system design
- programming skills
- good proficiency in written and spoken English
- high degree of independence and personal responsibility
- structured and team-oriented way of working.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents by **June 15, 2022** (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single PDF document to andreas.krinke@tu-dresden.de or to: TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Feinwerktechnik und Elektronik-Design, Herrn Prof. Jens Lienig, Helmholtzstr. 10, 01069 Dresden. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis).