

Faculty of Electrical and Computer Engineering

At the **Institute of Circuits and Systems** the **Chair of Fundamentals of Electrical Engineering** is offering a project position as

Research Associate

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

starting **February 1, 2021** for a period of 3 years within the framework of a project funded by the German Research Foundation. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG)

Tasks: Research work on the project "Bio inspired Memcomputing via Crossbar Structures (BioMCross)".

Requirements: very good to good university degree in the field of electrical engineering, physics or related fields; ability and willingness for independent, conceptual work in a team; interest in practice-oriented, interdisciplinary cooperation with cooperation partners from industry; very good written and spoken English skills; experience in device level circuit modeling; knowledge of interconnect capacitance and resistance models, very good programming skills with experience in SPICE and Matlab or equivalent software tools, fundamental knowledge of Artificial Neural Networks (ANNs) and applications. Knowledge of memristors and nonlinear dynamical system theory are desirable.

Applications from women are particularly welcome. The same applies to people with disabilities. Please address your application with the usual documents until **December 18, 2021** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Grundlagen der Elektrotechnik und Elektronik, Professur für Grundlagen der Elektrotechnik, Herrn Prof. Dr. phil. nat. habil. Ronald Tetzlaff, Helmholtzstr. 10, 01069 Dresden** or via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to: ronald.tetzlaff@tu-dresden.de. 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>