

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Faculty of Electrical and Computer Engineering, Institute of Fundamentals of Electrical Engineering and Electronics**, the **Chair of Fundamentals of Electronics** offers a project position as

Research Associate (m/f/x)

within the framework of the BMBF-funded project

“Memristor Cellular Nonlinear Networks for Epilepsy Seizure Prediction (MINDSET)”

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

starting at the **earliest possible date**. The position is limited until June 30, 2028. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

Tasks:

- review of current literature on epilepsy early detection using neural networks
- scientific development and theoretical analysis of Cellular Nonlinear Networks (CellNN)
- evaluation of CellNN performance for different resolutions
- collaboration in integrating software solutions into the hardware platforms of project partners
- publication and presentation of research results

Requirements:

- university degree with excellent academic results in Electrical Engineering, Physics, Computer Science, or a related field
- ability to work independently and conceptually, as well as strong teamwork skills and interest in interdisciplinary, application-oriented research
- very good written and spoken English skills
- basic knowledge in neural networks and machine learning is advantageous

We offer:

- collaboration in an interdisciplinary and international research environment
- flexible working hours and family-friendly working conditions
- remuneration according to TV-L including the usual public sector social benefits

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents by **March 16, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single PDF file to ronald.tetzlaff@tu-dresden.de or to:

TU Dresden, Chair of Fundamentals of Electronics, Prof. Dr. phil. nat. Ronald Tetzlaff, Helmholtzstr. 10, 01069 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

TUD is a founding partner in the DRESDEN-
concept alliance.

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