

Technische Universität Dresden (TUD), as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. 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 **Center for Advancing Electronics Dresden (cfaed)**, the **Chair of Network Dynamics** (Prof. Marc Timme) offers a position as

Research Associate / Postdoc (m/f/x)

with focus on **basic research on the nonlinear dynamics of complex systems and networks**
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **October 1, 2023** or later. The position is limited until September 30, 2025. The period of employment is governed by the Fixed Term Research Contracts Act Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain further academic qualification.

Tasks: research on collective dynamical phenomena of complex systems and networks; teaching introductory material of applied mathematics (for physics students), mathematical modeling and statistical physics; support of grant proposals, establishing and executing collaborative research.

Requirements: outstanding university and PhD degree in Theoretical Physics (or closely related field); experience in mathematical modeling, statistical physics, nonlinear dynamics, stochastic processes; advanced programming skills; excellent command of English language; high self-motivation and independent, target- and solution-driven work attitude; experience in (co-)supervising research; experience in collaborative research.

What we offer: You will join a dynamic interdisciplinary team of enthusiastic scientists who pursue their research agenda by creativity, mutual exchange of knowledge and collaboration across disciplines and institutions. Your research will be fostered by our philosophy to promote early-career researchers, which includes:

- access to state-of-the-art research facilities of a leading academic institute
- international doctoral program
- promotion of gender equality and family-friendly work environment
- opportunity to attend training courses (soft skills & skills furthering academic success/career).

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 and offers a Dual Career Service. 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.

Your application (**in English only**) should include: motivation letter, CV with publication list, names and contact details of two references, copy of degree certificate, transcript of grades (i.e. the official

list of coursework including your grades) and proof of English language skills. Complete applications should be submitted by **July 14, 2023** (stamped arrival date of the university central mail service applies), preferably via the TU Dresden Secure-Mail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file quoting the reference number **ND 1/23** in the subject header to recruiting.cfaed@tu-dresden.de or to: **TU Dresden, cfaed, Professur für Netzwerk-Dynamik, Herrn Prof. Marc Timme, 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.

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>.