

## **Technische Universität Dresden - Center for Synergy of Systems (SynoSys)**



TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in Germany. The Center Synergy of Systems (SynoSys) develops transdisciplinary approaches and methods in the fields of network science, data science and citizen science in order to conduct integrative research on complex phenomena at the interfaces between biomedicine, social sciences and life sciences. SynoSys contributes to the emergence of a scientific vision for healthy human development in which physical and mental health are collectively considered in an increasingly digital and networked social and physical environment. SynoSys is part of the Center for Interdisciplinary Digital Sciences (CIDS), a node in the network of transdisciplinary research on digitalization and a crystallization point for innovation and collaboration with a focus on complex systems science. 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.

### **Research Associate / PostDoc (m/f/x)**

The Center Synergy of Systems (SynoSys) offers a project position as Research Associate / PostDoc (m/f/x) (subject to personal qualification employees are remunerated salary group up to E 13 TV-L) starting at the earliest possible date with 50% of the fulltime weekly hours and the possibility of increasing to 100% (subject to release of funds). The position is limited until December 31, 2028. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate the request in your application.

City: Dresden; Starting Date: At the earliest possible; Duration: limited until December 31, 2028; Renumeration: subject to personal qualification employees are remunerated salary group up to E 13 TV-L; Reference number: w24-429; Closing date: 31/01/25

### **Working field**

scientific research activities with the general research topic of Post Covid Conditions and a strong interest in analyzing, and integrating large-scale, high-resolution, long-term, individual-based data collected on wearable devices, and survey datasets, modelling, developing and implementing algorithms for analyzing complex, heterogeneous datasets. The position also requires partial but active project related supervision of PhD students. Further tasks include: writing of scientific publications in the high-profile journals; participation in professional conferences and presentation of the research work and its projects; support of the center for applications for third-party funding.

### **Requirements**

- university degree in Mathematics, Physics or Computer Sciences, Data Science or equivalent and/or PhD degree

- strong interest in working in a research environment at the interface of complex systems science, network science, social sciences as well as life sciences
- proficiency in a programming language, like Python or R
- ability to work in a collaborative, transdisciplinary environment
- interest in complex systems and exploratory, high-risk research
- good command of spoken and written English
- ideally experience with time series data processing and dimensionality reduction techniques

### **What We Offer**

a unique opportunity to do frontier research in a truly transdisciplinary environment with a high-level exposure to various topics

- the opportunity to work in a dynamic and international research environment with a high degree of creative freedom
- an interesting and responsible position where you will get to know the diverse tasks and developments in the research field and specific area of expertise
- flexible working hours and home office arrangements
- diverse offerings for health promotion and work-life balance, for example, through our family office or our health management program
- numerous opportunities for further education, including language courses, IT training, and seminars for professional development
- possibility to participate in the wide range of activities offered by the university sports program
- 30 days of paid annual leave and a year-end bonus payment; additional pension provision (VBL)

## Application

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.

Please submit applications containing all documents. The documents must be in English and contain:

- a letter of motivation for the application (cover letter);
- curriculum vitae, if applicable a list of publications;
- degree certificate;
- names and contact details of one reference that we can contact.

Please submit your detailed application including the mentioned documentation quoting the reference number "w24-429" by January 31, 2025 (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 **synosys@tu-dresden.de** or to: TU Dresden, Center for Synergy of Systems (SynoSys), Herrn Prof. Dr. Dirk Brockmann, 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>.

More information at <https://stellenticket.de/190791/>

Offer visible until 31/01/25

