

Technische Universität Dresden - Center for Interdisciplinary Digital Sciences (CIDS), 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 (m/f/x) for Database Management and Data Curation

The Center Synergy of Systems (SynoSys) offers a project position as Research Associate (m/f/x) for Database Management and Data Curation (subject to personal qualification employees are remunerated salary group E 13 TV-L) starting at the earliest possible date. The position is limited until December 31, 2028. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

City: Dresden; Starting Date: At the earliest possible; Duration: The position is limited until December 31, 2028.; Renumeration: subject to personal qualification employees are remunerated salary group E 13 TV-L; Reference number: w24-428; Closing date: 31/01/25

Working field

scientific research activities with the general research topic of Post Covid Conditions and a strong interest in large-scale, high-resolution wearable data and survey results to advance the understanding of Post-COVID-Condition (PCC). Specifically, the tasks include:

- develop data models and structures for curated datasets derived from wearable data and survey results,
- establish protocols for integrating diverse datasets (e.g., high-resolution time series and clinical data)
- oversee the extraction, cleaning, and transformation of raw data into well-structured, high-quality curated datasets
- create comprehensive metadata and documentation for curated datasets
- furthermore: writing of scientific publications in the relevant Journals; conducting detailed literature searches; 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 or equivalent
- strong interest in working in a trans-disciplinary research environment at the interface of computer science, and social sciences as well as data science applications
- proficiency in a programming language, like Python or R, SQL
- proven experience in data management, curation, or analysis, preferably in research environments
- familiarity with metadata standards and data documentation practices
- ability to work in a collaborative interdisciplinary environment
- good command of spoken and written English
- ideally experience with large, heterogeneous datasets, particularly wearable or time series data

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 "w24-428" 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/190797/>

Offer visible until 31/01/25

