TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in Germany. It 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.

The new Center for 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 into complex phenomena at the interfaces between biomedicine, social sciences and life sciences. SynoSys will contribute 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. As a department of the Center for Interdisciplinary Digital Sciences (CIDS), SynoSys will be a node in the network of transdisciplinary research on digitalization and a crystallization point for innovation and collaboration.

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.

The Center for Synergy of Systems (SynoSys) offers a project position as

**Data Visualization Scientist (m/f/x)**
(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 October 31, 2026. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

**Tasks:** The position is tasked with and responsible for development of interactive, web-based scientific visualizations of research conducted by SynoSys researchers. Specifically, the tasks include:

- scientific research and development activities in the field of network science, data science and citizen science to analyze complex phenomena at the interfaces of biomedicine, social and life sciences,
- implementation/transfer and testing of the scientific design and development of data-driven visualizations with d3js and/or related technologies, design and development of web-based dashboards and interactive tools,
- presenting research results at conferences and writing publications in renowned journals,
- curating and creating web-based data reports and data-driven blogs.

**Requirements:**

- scientific university degree in the field of visualization/communication design
- interest in complex systems, complexity research, transdisciplinary research
- knowledge of web-related programming, Javascript, d3js and interactive visualization frameworks, Python and data visualization tools
- preferably experience with data-driven visualizations and data analysis
- excellent visual design skills as well as strong communication and storytelling skills
- experience with interactive, web-based data visualizations, with the demonstrated ability to lead and execute data visualization projects from start to finish
- ability to work in a collaborative, interdisciplinary environment
We offer: A unique opportunity to contribute to complex science research incl. topics like mobility, epidemiology, post-covid conditions, collaboration, climate etc.

- 30 days of paid annual leave and a year-end bonus payment; additional pension provision (VBL)
- the opportunity for personal scientific qualification in a young, 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

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 your detailed application – written in English –, including the following documents: CV, portfolio of recent work, optional: letter of recommendation, quoting the reference number “w24-205” by August 16, 2024 (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 Synergy for 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.