TUD Dresden University of Technology, 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 **Faculty of Environmental Sciences, Department of Forest Sciences, Institute of Forest Utilization and Forest Technology**, the newly established **Chair of Digitized forestry processes and systems** offers a position as

Technical employee for Digital Measurement Technology, Data Acquisition, UAV Operations and Data Processing in Forestry (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 10 TV-L)

starting **as soon as possible** to be based in Tharandt on a permanent contract.

The position combines **field work** such as **laser scanning** and **drone flight** with **mechatronics** and **high-tech data processing**, offering a varied range of tasks that span practical work and digitalisation.

Tasks:

- support for the scientific work within the chair by contributing to the development of digital workflows and data automation of remote sensing and sensor data through the development of algorithms and scripts and their implementation
- management of the Mechatronics Sensors Laboratory
- development of (information) technology systems and/or processes for digital measurement technology
- planning and implementation of UAV-based surveys (including flight preparation, operation of drones with LiDAR, RTK-GNSS, RGB cameras) as well as ground-based surveys (total stations, LiDAR, etc.) and sensor data acquisition
- operation and maintenance of modern surveying and sensor technology as well as the XR technology of the XR Forest Lab TUD
- technical support in the setup and operation of measurement technology in the field (e.g., sensor stations, BVLOS drones, power supply)
- processing and quality assurance of large amounts of environmental data (e.g., point clouds, geodata)
- documentation, data management, and technical support for research and transfer projects

Requirements:

- relevant bachelor's degree in the fields of geoinformatics, surveying, environmental engineering, mechatronics, computer science, forest engineering or a similarly suitable field or equivalent knowledge and experience
- experience in working with drone technology, GNSS systems and geodetic instruments

- knowledge of data processing (e.g. GIS, point clouds, cloud solutions, ideally Python)
- practical programming skills in a scripting language
- technical understanding and skills
- willingness to work in the field (possibly with willingness to travel)
- ability to work in a team, reliability and independent working style
- have fun trying something new
- knowledge of German language (min. B2)
- good communication skills in supporting our specialist scientists
- driving licence B

Desirable:

- very good English language skills
- knowledge of a higher programming language
- drone licence A2/STS
- driving licence BE

We offer:

- a varied job at the interface of nature, technology, and digitalisation
- access to modern equipment (UAVs, laser scanners, XR glasses, computing clusters)
- flexible working hours and mobile working within the framework of TUD's working agreements
- work-life balance
- opportunities for further training and development in the areas of UAVs, XR, AI, and environmental measurement technology
- collaboration in an interdisciplinary team in the context of future-oriented research and technology development
- annual bonus according to the collective agreement
- job ticket/Job-German ticket
- 30 vacation days per year (based on a 5-day workweek)
- healthcare and sports programs at TUD

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 **September 30, 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 **thomas.purfuerst@mailbox.tu-dresden.de** or to: **TU Dresden, Chair of Digitized forestry processes and systems, Prof. Dr. Thomas Purfürst, Helmholtsztr. 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.