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,** the **Chair of Digitalized Forestry Processes and Systems** is seeking to fill a project position as part of the BMBF/FNR-funded project "LogChain – Use of blockchain technology for transparent documentation and digitalization of process chains in roundwood logistics."

Research Associate (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting at the **next possible date.** The position is limited until September 30, 2028, with 75% of the full-time weekly hours. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG)

We are looking for an **analytical expert** whose training enables them to understand logistical processes mathematically, develop digital models, and evaluate the results quantitatively.

Tasks:

- co-development and implementation of a blockchain-based solution for timber logistics
- development of logical traceability of timber products along the forest-timber chain
- integration of timber harvesting and satellite data for precise georeferencing of transactions
- evaluation of forestry practices: You analyse and evaluate the efficiency, ecology, and economic viability of digitally supported timber harvesting and logistics chains
- data collection as part of the project
- you will work closely with forestry practitioners, forestry companies, and machine manufacturers to ensure the transfer of research results into application
- publishing and presentations at international conferences

Requirements:

- a completed university degree in business informatics, industrial engineering, geoinformatics, applied computer science, forestry sciences, or equivalent knowledge
- experience in logistics, supply chain management, or operations research
- knowledge of data processing
- Ready-to-use programming skills in at least one scripting language
- teamwork skills, reliability, and the ability to work independently
- have fun trying something new
- willingness to undertake further training

Desirable:

- very good English skills
- knowledge of German (minimum B2)
- knowledge of a higher-level programming language

We offer:

- a varied job at the interface of nature, technology, and digitalisation
- infrastructure of a university of excellence
- 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

— collaboration in an interdisciplinary team in the context of future-oriented research and technology development
— work-life balance
— annual bonus according to the collective agreement
— job ticket/Job-German ticket
— 30 vacation days per year (within 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 **November 11, 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 **digifor@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.

TUD is a founding partner in the DRESDEN-concept alliance.

DRESDEN concept

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.