

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 Soil Science and Site Ecology**, the **Chair of Forest Sites and Hydrology** offers a position as

**Research Associate / PhD Student / Postdoc (m/f/x)  
in forest hydrology**

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

starting **September 1, 2025** (alternatively 1 October, 2025). The position is limited to 3 years with the option of extension (max. six years). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position entails 50 % of the full-time weekly hours aims at obtaining further academic qualification (usually PhD / habilitation thesis).

The area of **responsibility** includes both teaching and research with a **focus on hydrology, forest site ecology and soil science**. Participation in the following areas is expected:

**Teaching:**

- planning, organization and independent implementation of courses at Bachelor's and Master's level (in both German and English) as well as preparation and supervision of exams
- independent lecturing of courses or single lectures, including: Landscape Water Balance, Fundamentals of Soil Physics, Soil Water Dynamics, Soil Water Balance, Nutrients and Water Quality
- supervision and assessment of Bachelor's and Master's theses
- planning and implementation of excursions, field and laboratory exercises

**Research & Data Analysis:**

- data collection, evaluation and interpretation of environmental data
- research focus: Isotope (eco)hydrology in the soil-plant-atmosphere continuum, model-based evaluation of material and water cycles, hydroclimatic extremes (e.g. droughts) and their effects on the nutrient and water cycle in forests
- participation in scientific publications and third-party funded projects (including own applications)

**Tasks of academic self-administration**

**Requirements:**

- university degree (e.g. hydrology, forestry, environmental sciences, geoecology or similar)
- sound knowledge of hydrology and soil science
- basic knowledge of plant physiology and forestry
- ability to teach at BSc. and MSc. level (including teaching in English)
- experience with the use of a programming language (R, Python, Matlab, ...)
- experience with the use of a geoinformation software
- ability to work in a team, very good communication skills, independent working style and organizational skills
- very good German and English language skills
- German driver's license

**We offer:**

- a versatile working environment at the interface of research, teaching and practice
- working in an inspiring, collegial, interdisciplinary and international team
- opportunity for further professional development (e.g. PhD or habilitation)
- involvement in ongoing research projects in the field of forest sites and hydrology
- working environment with state-of-the-art (soil) hydrological and isotope analytical measuring instruments

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 (incl. cover letter, CV, publication list, certificates, diplomas, and the names and contact details of at least two references) by **July 31, 2025** (stamped arrival date or the time stamp on the email server of TUD applies) to: **TU Dresden, Chair of Forest Sites and Hydrology, Prof. Dr. Natalie Orlowski, Piennner Strasse 19, 01737 Tharandt**, or via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to [natalie.orkowski@tu-dresden.de](mailto:natalie.orkowski@tu-dresden.de). Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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**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>.