

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 (m/f/x) in forest (isotope) hydrology

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

starting **March 1, 2026**. The position is limited until February 28, 2029 and entails 50% of the full-time weekly hours. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually PhD).

The Chair of Forest Sites and Hydrology represents the field matter and water cycling in forests. Research focuses on the challenges of global change for the establishment, transformation and management of forests linked to matter and water cycles.

Tasks: The aim of this PhD position is to contribute to research focusing **on isotope (eco)hydrology** with a focus **on water and isotope fluxes** through forests. Tasks encompass field data collection of relevant ecohydrological fluxes in Saxon (DE) forest stands – both natural and reduced stem density stands. The aim is to determine the **influence of management** on the water supply of forests. This will be followed by a model-based assessment of the water cycle with a focus on hydroclimatic extremes (e.g., drought periods). The PhD Student will be able to further develop their own scientific profile, e. g. through courses offered by TUD's graduate academy; as well as supervise BSc/MSc students under the professional responsibility of the chairholder.

Requirements:

- university degree in hydrosiences, (eco)hydro(geo)logy, forestry, geoscience (or related fields), preferably with field and/or lab experience
- proven experience in working in diverse teams, proven scientific publishing skills (see required documents)
- interest or experience in (eco)hydrological modelling (R, Python, Matlab)
- a German driver's license (class B) is mandatory
- basic knowledge of German is desirable

We offer:

- an inspiring, international and interdisciplinary working environment with state-of-the-art (soil) hydrological and isotopic analytical tools
- attractive working conditions and opportunities for further professional development at TUD
- flexible working hours and the possibility to combine family and career

For questions, please get in touch with Prof. Dr. Natalie Orlowski (natalie.orlowski@tu-dresden.de).

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, written example of an English publication e.g., BSc. or MSc. thesis or first publication, certificates, diplomas, and the names and contact details of two references) by **January 5, 2026** (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 birgit.ziegelmayr@tu-dresden.de or

TU Dresden, Chair of Forest Sites and Hydrology, Frau Prof. Dr. Natalie Orlowski, 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.

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

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