

Technische Universität Braunschweig - Institute of Geocology



With around 15,000 students and 3,800 employees, the Technische Universität Braunschweig is one of Germany's leading institutes of technology. It stands for strategic and performance-oriented thinking and acting, relevant research, committed teaching, and the successful transfer of knowledge and technologies to the economy and society. We consistently advocate for family friendliness and equal opportunities. Our research focuses are mobility, engineering for health, metrology, and city of the future. Strong engineering and natural sciences are our core disciplines. These are closely interconnected with economics, social and educational sciences and humanities. Our campus is located in the midst of one of the most research-intensive regions in Europe. We work successfully together with over 20 research institutions in our neighborhood as we do with our international partner universities. We are looking to fill the following position as soon as possible in the Theoretical Ecohydrology Lab at the Institute of Geocology:

Scientific researcher (Doctoral Candidate, m/f/d)

Topic: Modelling of Coupled Soil-Plant Water and Wildfire Dynamics

(EG 13 TV-L, 75% part-time) The position is temporary for an expected duration of 36 months. It is intended to support the qualification of early-career researchers and offers the opportunity to pursue a PhD. At the Institute of Geocology, we work on interdisciplinary, natural science research questions related to environmental problems.

We investigate the causes and consequences of current environmental problems associated with human-induced global change and aim to develop solutions to these problems. www.tu-braunschweig.de/en/geooekologie

City: Braunschweig; Starting date (earliest): At the earliest possible; Duration: 36 Monate; Remuneration: EG 13 TV-L; Closing date: 10/05/26

Tasks

Within the lit[a]fir research project, which links hydrodynamic traits of trees and ecohydrological processes to wildfire spread through exploratory numerical modeling, you will:

- Conduct research on interactions between ecohydrology, plant hydraulics, and wildfires
- Perform modeling work on wildfire dynamics within the research project
- Collaborate regularly with project partners in Denmark
- Publish research results and participate in national and international conferences.

Requirements

- A completed scientific university degree (Master's or equivalent) in environmental sciences, ecology, geocology, environmental engineering, or applied mathematics

- Knowledge of working with differential equations
- Excellent English language skills
- Experience in programming (C/C++, R) and modeling
- Flexibility, resilience, and ability to work well in a team
- Interest in pursuing a PhD.

What we offer

- Work on exciting future-oriented research topics in an inspiring work environment as part of the university community.
- A research environment with a well equipped geotechnical laboratory with experimental hall as well as collaborations with other research facilities.
- A vibrant campus life in an international atmosphere with lots of intercultural offers and international cooperations.
- Pay in accordance with the collective agreement TV-L (a special payment at the end of the year as well as a supplementary benefit in the form of a company pension, comparable to a company pension in the private sector) including 30 days' vacation per year.
- Flexible working and part-time options and a family-friendly university culture, awarded the "Family-friendly university" audit since 2007.
- Special continuing education programs for young scientists, a postdoc program, as well as other offerings from the Central Personnel Development Department and sports activities.

Application

We welcome applicants of all nationalities. At the same time, we encourage people with severe disabilities to apply. Applications from severely disabled persons will be given preference if they are equally qualified. Please attach a proof of disability to your application. We are also working on the fulfilment of the Central Equality Plan based on the Lower Saxony Equal Rights Act (Niedersächsisches Gleichberechtigungsgesetz—NGG) and strive to reduce underrepresentation in all areas and positions as defined by the NGG. Therefore, applications from woman are particularly welcome in this case.

The personal data will be stored for the purpose of processing the application. By submitting your application, you agree that your data may be stored and processed electronically for application purposes in compliance with the provisions of data protection law. Further information on data protection can be found in our data protection regulations at www.tu-braunschweig.de/datenschutzerklaerung-bewerbungen.

Application costs cannot be reimbursed.

Questions and Answers

For more information, please call Prof. Ilhan Özgen via (0531) 391-5917 or send an email to i.oezgen@tu-braunschweig.de.

Deadline for applications is 10 May, 2026.

Please send your application preferably in PDF format via E-Mail to i.oezgen@tu-braunschweig.de

or via mail to

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Institut für Geoökologie
Langer Kamp 19c
38106 Braunschweig

More information at <https://stellenticket.de/203547/FUB/>

Offer visible until 10/05/26

