

Technische Universität Dresden - Institute of Groundwater Management



Technische Universität Dresden TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. 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.

Research Associate (m/f/x) to support the implementation of a noble gas mass spectrometer system

At the Faculty of Environmental Sciences, Department of Hydrosociences, the Institute of Groundwater Management offers a full-time project position as Research Associate (m/f/x) to support the implementation of a noble gas mass spectrometer system (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 December 31, 2027. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate the request in your application. At the Faculty of Environmental Sciences, a noble gas mass spectrometer system for helium isotope analysis is currently setting up. Helium isotopes can be used to estimate the average travel times of groundwater, which is of great importance for its sustainable management in the context of climate change.

City: Dresden; Starting date (earliest): At the earliest possible; Duration: 31.12.2027;
Remuneration: subject to personal qualification employees are remunerated according to salary group E 13 TV-L; Reference number: w26-135

Tasks

- scientific research tasks
- assemble, integrate and test components (vacuum, electronics) into the system
- quality-check manufactured parts
- identify faults and design errors, support the design process for better solutions
- automate process sequences
- demonstrate module functionality

Requirements

- university degree in physics, analytical chemistry, electrical engineering, IT or a similar subject
- initial experience in scientific instrument building
- independent & proactive work attitude
- A plus are skills in programming, electronics (control feedbacks, soldering, ...) and vacuum assemblies (materials, pumps, measurement) as well as in automation

(A/D interfaces, drivers, control software development).

- Another plus: Experience in noble gas analysis.

What we offer

- a diverse and hands-on job within an open-minded team and supportive atmosphere
- flexible working hours
- 30 days of vacation per year (based on a 5-day workweek)
- extensive opportunities for professional development and continuing education
- health care and sports programs offered by TUD
- a discounted Deutschlandticket
- participation in the supplementary pension scheme for employees in the public sector via VBL (Federal and State Government Employees Retirement Fund)

Application

Should you be interested, please contact paul.fremdling@tu-dresden.de for more information. Thank you!

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The university is a 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 CV listing which skills in instrument building you have by July 6, 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 paul.fremdling@tu-dresden.de or to:

TU Dresden
Institut für Grundwasserwirtschaft
Dr. Paul Fremdling
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.

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>.

More information at <https://stellenticket.de/204418/BEUTH/>
Offer visible until 26/06/26

