

Technische Universität Dresden (TUD), 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 Hydro Sciences**, the **Institute of Waste Management and Circular Economy**, offers a project position as

Research Associate (m/f/x)

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

starting **as soon as possible**. The position is initially limited until January 31, 2024. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position is part of the BMBF-funded project "Urban Water Management: German Expertise for Kazakh Cities". The overall goal of the project is to develop alternative solutions for sustainable management of urban water resources in Kazakhstan.

Tasks: The work will focus on the development of a serious game for groundwater management, including the following specific tasks:

- Participation in the development of the general concept
- Conceptualisation, development and web-based implementation of a graphic user interface
- Coupling the serious game to the web-based groundwater modelling platform INOWAS (www.inowas.com), which will be used as main calculation engine
- Creation of serious game scenarios on groundwater management and managed aquifer recharge and elaboration of online documentation
- Participation in workshops and training courses.

Requirements: university degree in environmental sciences, geoinformatics, applied informatics or equivalent; advanced knowledge in development of web applications (python, PHP, Javascript, Typescript, and frontend frameworks); proficiency in written and spoken English; good communication skills. Of advantage are: experience in groundwater modelling (preferably MODFLOW), design and implementation of serious games, development of environmental software.

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 and offers a Dual Career Service. 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 comprehensive application including the usual documents by **January 25, 2023** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Abfall- und Kreislaufwirtschaft, Herrn Dr. Catalin Stefan, Helmholtzstr. 10, 01069 Dresden, Germany** or via

the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf-document to catalin.stefan@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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>.