



**TECHNISCHE  
UNIVERSITÄT  
DRESDEN**

**DRESDEN**  
concept



## **Faculty of Environmental Sciences**

The **Department of Hydro Sciences, Institute of Waste Management and Circular Economy** offers a project position as

### **Research Associate**

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

starting **immediately**. The position comprises 50% of the fulltime weekly hours and is 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. For this, a virtual city model will be conceptualized and demonstrated at a test site in Nur-Sultan city. The model will focus on scenarios-based estimations of different urban water fluxes as well as all natural inflows, outflows, and changes in storage in the urban water basin.

**Tasks:** Your main task in the project is the development and implementation of necessary software infrastructure for the realization of the virtual city model in Kazakhstan. The work will focus on further development of the existing groundwater simulation platform [www.inowas.com](http://www.inowas.com) and will consist in both backend and frontend development.

**Requirements:** university degree in environmental sciences, geoinformatics, applied informatics; expert knowledge in usual web programming languages such as PHP, Javascript and Typescript and frontend frameworks such as ReactJS, comprehensive experience in numerical groundwater modelling, preferably MODFLOW and FloPy or similar; high capacity for team work and communication skills; business fluent English skills. Knowledge in German language would be advantageous.

**What we offer:** an interesting work as part of an international young research group; if necessary, we offer the possibility for remote/mobile working.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your application by **March 1, 2021** (stamped arrival date of the university central mail service applies) preferably 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](mailto:catalin.stefan@tu-dresden.de) or by mail to: **TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Abfall- und Kreislaufwirtschaft, Herrn Dr. Catalin Stefan, Helmholtzstr. 10, 01069 Dresden**. 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>