Faculty of Environmental Sciences

At the Department of Hydro Sciences, the Institute of Water Chemistry invites applications for the position of

**2 Research Associates / PhD students**

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

The positions are available starting as soon as possible, entail 50% of the fulltime weekly hours and are fixed-term for 3 years, max. until 31.12.2022. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The positions offer the chance to obtain further academic qualification (e.g. PhD).

**Short project description:** The project *Applying chemical activity concept in chemical hazard assessment* aims to re-design current testing strategies to increase throughput and decrease susceptibility to experimental artefacts by maintaining constant stable exposure and using exclusively taxonomically lower organisms (water fleas, algae). Simultaneously the information output is enhanced by using highly specific/sensitive analytical techniques (LC/MS, GC/MS) and employing chemical activity concept to provide not only indicators of toxicity/bioaccumulation but also information on modes of action, transformation products and (a)biotic partitioning.

**Tasks:** Using passive dosing to establish and maintain stable exposure in test; performing acute/chronic *Daphnia magna* and green algae test; extracting hydrophobic pollutants from water/animal tissue; analysis of data and interpretation of results; supervision of M.Sc. and BA students; presentation of results at international conferences; preparation of publications in international high-ranked journals.

**Requirements:** university degree (M.Sc.) in chemistry, environmental science or related disciplines; excellent track record; laboratory experience (knowledge of LC/MS or GC/MS); high motivation and interest in scientific work; excellent command of English (German would be an advantage).

We offer the possibility to conduct top level interdisciplinary research, excellent laboratory facilities, to international cooperation networks, career support and personal development options.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send the standard application documents at the latest until **15.08.2019** (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to: marta.markiewicz@tu-dresden.de or per post to: TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Wasserchemie, Frau Dr. Marta Markiewicz, 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.

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**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](https://tu-dresden.de/karriere/datenschutzhinweis)