Faculty of Environmental Sciences

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

Research Associate / Postdoc

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

The position is available immediately, entails 75% of the fulltime weekly hours and is fixed-term until 30.04.2021. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. habilitation thesis).

Short project description: The bioconcentration/bioaccumulation potential of chemicals is of highest concern for environmental risk assessment. Prediction models are used for their first assessment. The existing prediction models are applicable to hydrophobic and polar organic chemicals; however, they often give inappropriate and inaccurate results for ionogenic compounds and permanently charged organic chemicals. The main aim of the proposed project is to understand and predict the interactions of organic ions, and ion pairs in particular, with biological systems and their consequences in terms of bioconcentration and to establishing meaningful Quantitative Structure–Activity Relationships (QSARs) allowing for a reliable estimation of the bioaccumulation potential of ionic species.

Tasks: Implementing the DFG project (BILOCATION) which aims to determine the bioconcentration potential of organic ions via electro physiological experiments; planning and conducting lab experiments, establishing QSARs, performance of LC-MS/MS analyses including evaluation of data, preparation of project reports and scientific publications; supervision of Master and PHD theses.

Requirements: university and PHD degree in (bio) physics, chemistry or environmental science; knowledge in membrane physiology or bioaccumulation assessment; significant experience in software based QSARs; excellent written and oral English skills.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send the standard application documents at the latest until 12.06.2018 (stamped arrival date of the university central mail service applies) to: TU Dresden, Fakultät Umweltwissenschaften, Fachrichtung Hydrowissenschaften, Institut für Wasserchemie, Herrn Prof. Dr. Stefan Stolte, 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.