As part of the Tenure Track Programme of the German Federal Government and the Federal States, the Faculty of Environmental Sciences, Department of Hydro Sciences, Institute of Urban and Industrial Water Management, seeks to fill the Chair (W2) of Urban Water Resources Management (with tenure track to W3) with a six year contract, to be filled as soon as possible, but not later than October 1st 2020. In being appointed to the chair, evaluation criteria will be mutually agreed upon, which will be evaluated by a TU Dresden evaluation commission at the latest in the fifth year of the chair. Essential performance criteria consist of the development of a relevant and independent research profile by means of high-quality publications, raising of third-party research funds and related project leadership, the successful (further-)development of innovative components in academic training programmes, each on the level of a W3 professorship as well as the establishment of national and international co-operations. Following a positive evaluation, a permanent Chair (W3) of Urban Water Resources Management will be granted.

Teaching is dedicated to Bachelor and Master students, mostly from the study courses offered by the Department of Hydro Science and including courses taught in English language. The courses deal with urban water management and the interaction with neighbouring systems of hydrology, groundwater management and surface waters. Main emphasis is put on rain-runoff process in urban areas, wastewater treatment with conventional and advanced processes, water distribution, modelling of transport and conversion processes in wastewater systems and rivers, integrated water resources management as well as on dealing with priority substances in urban water systems. Teaching responsibilities will be jointly arranged together with the Chair of Urban Water Management. In research, the professor is expected to work on the development of innovative approaches of water quantity and water quality management in urban areas. This includes the development and assessment of alternative systems to cope with changing boundary conditions, the investigation of the behaviour of micro-pollutants in urban waters, and wastewater design for reuse for various purposes e.g. in agriculture, for groundwater recharge and for energy crop production. A main part of the research will be model development and coupled modelling of transport and conversion processes across compartment boundaries. Potential topics refer to the input to the system of substances from various sources, the dynamics of extreme events and urban flooding, the interaction of sewers with groundwater through un-tight systems and through stormwater infiltration as well as chronic and acute impacts on surface waters. Due to the structure of the Department of Hydrosciences and the respective co-operation with natural science working groups, the professor of Urban Water Resources Management shall direct a main part of its research capacity towards fundamental investigations.

The successful candidate is internationally recognized in the research field and provides experiences in the field of urban water management, model development and modelling of interfaces between compartments and disciplines, as well as in third-party funded project acquisition and international co-operation. Special attention will be paid to the capability for interdisciplinary co-operation, which is of outstanding significance for the joint research in the Center for Advanced Water Research (CAWR) – a co-operation between the water sectors at TU Dresden and the Helmholtz Center for Environment Research – UFZ. The holder of the position
shall co-operate on topics related to integrated water resources management with the Dresden-based Institute FLORES of the United Nations University (UNU).

The position addresses top early career scholars. Applicants must fulfil the employment qualification requirements of § 58 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (SächsHSFG) and should be in an early postdoc phase. TU Dresden supports tenure track professors with a programme specifically tailored to their needs. Mentoring, various coaching sessions, and special continuing education programmes and support offers provide active professional guidance throughout the duration of the temporary position at the chair.

TU Dresden seeks to employ more female professors. Hence we particularly encourage women to apply. Applications from candidates with disabilities or those requiring additional support are very welcome. The university is a certified family-friendly university and offers a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty of Environmental Sciences (Prof. Dr. Doris Krabel, +49 351 463-31857) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, +49 351 463-33175).

Please send your application including a CV, description of your academic career, list of publications, teaching activities and successfully acquired third-party funded, teaching evaluation results (preferably of the last three years), a statement of future research and teaching interests and the certificate of the highest academic degree as a hard copy before 28.02.2020 (stamped arrival date of the university central mail service applies) to: TU Dresden, Dekan der Fakultät Umweltwissenschaften, Herrn Prof. Dr. Lars Bernard, Helmholtzstr. 10, 01069 Dresden, Germany and in electronic form via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to dekanat.uw@tu-dresden.de.

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