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The Young Investigator Group "SEE-URBAN-WATER" at the Institute of Applied Geosciences is offering a



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

### **Ph.D. position (f/m) – 75 %**

From January 1, 2018 on. The position is initially limited to one year, but can be extended to a total of five years.



Within the framework of the Young Investigator Group "SEE-URBAN-WATER", the Federal Ministry of Education and Research is funding over a period of five years the research work of four doctoral students and one group leader in the field of social-ecological research. The doctoral positions will be filled on an interdisciplinary basis (one doctoral candidate from the engineering sciences, natural sciences, social sciences and economics). The research work of the Young Investigator Group deals with the interaction of technical infrastructure systems, urban ecosystems and the urban environment in developing countries. In the Nicaraguan city of León as a case study, representative research areas are used to develop and test nature-based urban drainage and wastewater treatment infrastructures and to investigate their effects on ecosystem services in the city and its surroundings.

If you would like to contribute to the development of sustainable urban drainage, wastewater treatment and protection of urban waters in a young interdisciplinary team, then we look forward to receiving your application.

#### **Requirements / your profile:**

- Master or diploma degree in civil engineering, environmental engineering, urban water management, urban/free-space planning or a similar field of study.
- Knowledge in the application of geo-information systems and / or hydrological / hydraulic / ecological models.
- Willingness to undertake regular field trips and conference visits abroad (e. g. to Nicaragua about 6 weeks a year).
- Very good command of written and spoken English.

#### **Advantageous for the application:**

- Previous knowledge of ecosystem services (mapping, modelling and assessment), nature-based infrastructures (planning and design).
- Experience in interdisciplinary cooperation and socio-ecological research.
- Spanish language skills.
- Knowledge of remote sensing and image analysis.
- Experience in international cooperation (especially with developing countries).
- Experience in scientific publishing.

Opportunity to prepare for a doctorate is given. The fulfillment of the research and service requirements attached to this position serve at the same time as fulfillment of the academic requirements for a candidate's doctoral degree. The Technische Universität Darmstadt intends to increase the number of female employees and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the Technische Universität Darmstadt.

**Please send your applications by e-mail to Dr. -Ing. Jochen Hack ([j.hack@ihwb.tu-darmstadt.de](mailto:j.hack@ihwb.tu-darmstadt.de)) including the usual documents. Application deadline: December 3, 2017.**