

INTERNSHIP/ MASTER THESIS (2 JOBS)

**SUPERVISION AND VALIDATION OF MICROBIAL MEASUREMENT CAMPAIGNS AT
MANAGED AQUIFER RECHARGE SITE**

PROJECT DESCRIPTION:

The project SMART-CONTROL aims to reduce risks associated with Managed Aquifer Recharge (MAR) techniques by developing innovative, web-based, real-time monitoring and control systems in combination with risk assessment. Students will work on the development of a microbiological risk assessment tool using fully automatic flow cytometry at a MAR site in Berlin.

TASKS:

The works include sampling and field work on water works premises in Berlin. Students are guided to operate flow cytometers in abstraction and observation wells, and carry out microbial sampling under hygienic conditions. Statistical assessment of microbial measurements is expected. Field works requires presence in Berlin for a period of two month from August to September 2019. The planned investigations are suitable to pursue a master's thesis.

REQUIREMENTS:

- Study in hydrogeology, soil sciences, geo-statistics or related disciplines
- Willingness to practical work, willingness to familiarize with the programming language "R" and to use this to analyze large data sets
- Basic knowledge of microbiology, hydraulics, statistics
- Driving license obligatory

WE OFFER:

- Up to three months internship (full time, 40 hours / week) + six months master's thesis
- Training costs for "R" online courses
- Practical research and close supervision
- Financing: 450 €/month
- Start: 01.07.

**BEWERBUNGEN SIND MIT DEM KENNWORT „SMART-CONTROL“ BIS ZUM 30.05.2019 ZU
SENDEN AN:**

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