



The Collaborative Research Center SFB 1076 “**AquaDiva** – Understanding the Links between Surface and Subsurface Biogeosphere” is funded by the Deutsche Forschungsgemeinschaft (DFG). AquaDiva is an ambitious research center with more than 70 researchers and Institutes at four faculties of the Friedrich Schiller University Jena (FSU) and three non-university research institutes in Jena or Leipzig. The integrated Research Training Group AquaDiva is educating doctoral researchers in a structured, interdisciplinary training program. AquaDiva combines different research areas, such as ecology, microbiology, hydrogeology, soil science, geomorphology, geochemistry, geology, geophysics, chemistry, and information science, to a comprehensive picture of subsurface research (www.aquadiva.uni-jena.de).

The Integrated Research Training Group AquaDiva invites applications for a
Doctoral Researcher Position (m/f; Ref.No. 160/2017)

at the RNA Bioinformatics and High Throughput Analysis Group, Friedrich Schiller University Jena (FSU):

Viral Diversity, Viral *de novo* Assembly, and Viral Decay in Groundwater

We aim to (1) determine the diversity of previously known viruses in groundwater; (2) detect differentially expressed genes from a metagenomic/-transcriptomic context; (3) perform *de novo* identification of unknown RNA and DNA viruses in groundwater including the generation of a new assembly pipeline; (4) determine the viral decay of previously known and novel detected viruses; (5) provide basic bioinformatical service to all member of aquadiva.

Requirements:

- A Master’s degree (or equivalent) in **Bioinformatics**; candidates expected to earn their degree by September 2017 are welcome to apply
- **Solid knowledge** of virus bioinformatics, positive selection and recombination detection, transcriptome-assembly based on combined existing approaches, differential gene expression, genome comparison, and statistical analysis of large data sets
- **Excellent technical skills** in: programming ruby, C and R
- Readiness to work for extended periods in the field
- Enthusiasm to play an active role in the **interdisciplinary research team** of AquaDiva
- Highly motivated and creative personalities, with an interest to shape their own thesis project
- Excellent written and oral communications skills in **English**

We offer:

- A doctoral researcher position (TV-L E13 - salary agreement for public service employees, 75%) with funding from Sep 1, 2017, until Jun 30, 2021, as well as generous research funding with the possibility of a three-months research stay abroad
- Opportunity for research on an innovative and unique Critical Zone research platform
- A comprehensive mentoring program with supervision by a team of advisors
- A communicative atmosphere within a scientific network providing top-level research facilities and training program, including participation in international and national conferences and workshops
- The place of work is Jena, Germany, a young and lively university town with dynamic business activities, successful scientific centers of innovation, and a vibrant cultural scene around a university with a rich tradition

Severely handicapped persons with equal qualification and aptitude are given preferential consideration.

Applications should be written in English. The **application deadline is June 30th**, 2017.

Applications are submitted exclusively via an online application tool: <https://apply.jsmc.uni-jena.de>

Selected applicants will be invited to a recruitment symposium in Jena, Germany, presumably in August, 2017.

For more **information on the position**, feel free to contact Dr. Bashar Ibrahim (bashar.ibrahim@uni-jena.de). For more **information on the application process**, please contact the coordinator, Dr. Maria Fabisch (maria.fabisch@uni-jena.de). More **project details**: <http://www.aquadiva.uni-jena.de/Graduate+school/Open+positions-p-213.html>.