

As part of the BMBF financed project “Integrated Fluid Dynamics in Sedimentary Basins”, the **Institute for Geological Sciences** at the Friedrich Schiller University, Jena, in cooperation with the Department for Hydrosystems Modelling, **Helmholtz Centre for Environmental Research (UFZ)** in Leipzig, seek to fill

2 PhD positions for a duration of 3 (2+1) years.

INFLUINS studies the movement of fluids (liquids and gases) in the subsurface. In particular, we are interested in the interaction between near surface and deep groundwater and material fluxes. A total of 12 sub-projects work together covering the fields of geology, hydrogeology, geophysics, mineralogy, geochemistry and climatology. The project “micrometeorology” (NWG2) deals with boundary layer meteorology and exchanges between soil, vegetation and atmosphere, as well as mass balancing and up-scaling of exchange processes. As part of INFLUINS, all components of the water balance at the ecosystem level in the Thuringian Basin will be measured and modelled, as well as estimating the water balance across the whole basin. This will be done in close cooperation with the Max-Planck-Institute for Biogeochemistry (MPI-BGC) Jena, and the Georg-August-University, Göttingen.

One of the PhD candidates will deal with the question of water budgets at the ecosystem level. This will involve establishing and maintaining a field measurement program, the dissemination and interpretation of the collected data, with a view to understanding the ecophysiology including soil-vegetation-fluxes as well as creating a soil-vegetation-atmosphere exchange model.

The other PhD candidate will try to quantify the water balance of the Thuringian Basin. This will involve integrating local field measurements as well as satellite data into a hydrologic model (mHM), in order to calibrate and where necessary, improve it.

In order to apply, candidates must have completed their diploma/masters in the field of (micro-) meteorology, environmental sciences, biology physics, applied mathematics or related subjects, have very good knowledge of German and English, be able to work in teams and in cooperation with national and international partners.

The positions are initially for 2 years, with a 1 year prolongation. These are half positions. Salary will be paid in accordance with the TV-L 13/2 pay scale. The job location is Leipzig, as well as travelling to the measurement stations across the Thuringian Basin.

The FSU Jena is an equal opportunity employer and explicitly supports applications from women. In case of equal qualification, suitability and experience, applications from disabled candidates will be favoured.

For questions, please contact: Dr. Corinna Rebmann, Helmholtz Centre for Environmental Research – UFZ, Permoserstr. 15, 04318 Leipzig, email: corinna.rebmann@ufz.de, tel.: +49 (0)341 235 1599

Please send applications including a letter of intent, copy of diploma or MSc certificate, a summary of the diploma/MSc thesis as well as the contact details of two referees in pdf format, by email to the INFLUINS project coordinator:

Annett Habisreuther
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Applications will be accepted until the position is filled.
Further information about INFLUINS can be found at: www.influins.uni-jena.de