The Integrative Research Institute on Transformations of Human-Environment Systems (IRI THESys) at Humboldt-Universität zu Berlin seeks highly qualified and motivated candidates for

1 PhD Position in
Decision Support Modelling and Robustness Analysis

(TV-L HU 13, 50%, duration 3 years)
Start date: 1.11.2013
Reference: DR/110/13

The IRI THESys is a flagship activity of Humboldt-Universität and contributes to sharpening the university’s research profile and promoting international cooperation. It is a key component of HU’s institutional strategy. The Junior Research Group on Global Environmental Change and Transformations of Human-Environment Systems is a core element of IRI THESys that promotes interdisciplinary research. It focuses on the interrelations of water with other natural resources and societal needs (e.g. climate, food, energy, security), with particular emphasis on human-environment interactions, transformations, uncertainties and global-local feedbacks. For more information visit: www.iri-thesys.org/research THEMES/jrg/land_water.

The successful applicant will develop methods for decision support in the broad context of the topical climate-water-food-energy nexus, with particular emphasis on integrating epistemic or lack-of-knowledge uncertainties into more traditional risk-based frameworks. The successful applicant will work with the project Southern Africa’s Hydro-Economy and Water Security (SAHEWS), integrating the hydro-meteorological and hydro-economic research of the team with acute decision problems, such as multi-use reservoir management or grower adaptation to seasonal forecasts. These local case studies will be co-designed with end-users.

We seek a candidate with an MSc or equivalent degree in Geoecology, Geography, Hydrology, Agricultural or Environmental Sciences, Statistics, Applied Mathematics or Computer Sciences. People with a methodological background should have experience in environmental applications and vice versa. We expect the ability to collaborate with end-users and other stakeholders in the design and execution of the research, and an interest in decision support modelling and in applying and further developing epistemic uncertainty methods. Related skills in programming (e.g. Matlab) and GIS are desired. Familiarity with high performance computing would be an asset. Excellent command of the English language, good communication skills and willingness to travel are mandatory.

We offer a position in an international and interdisciplinary team. Payment will be according to EG 13 TV-L HU (50%). The employment at Humboldt-Universität offers all benefits of the German public service, including health insurance. Humboldt-Universität is a certified family-friendly university. We specifically encourage qualified female researchers to apply. Preference will be given to disabled persons with equal qualifications. Applications from international candidates and from people with migration background are particularly welcome.

Applications including the reference (DR/110/13), a cover letter, full CV, certificates, contact details of two referees and a writing example (e.g. part of a thesis) shall be sent in a single PDF file to iri-thesys@hu-berlin.de until 04.10.2013. For further information please contact Dr. Tobias Krüger (tobias.krueger@hu-berlin.de).

Please visit our website www.hu-berlin.de/stellenangebote, which gives you access to the legally binding German version of this job advert.