

Researcher - Hydrology/Hydrogeology/Water Resources Management (Kathmandu, Nepal)

Job purpose:

The International Water Management Institute (IWMI) is looking for a **Researcher - Hydrology/Hydrogeology/Water Resources Management** who will perform hydrologic modelling, and contribute to the development and enhancement of water system models for a project funded by the United States Agency for International Development (USAID) on Sustainable, Just and Productive Water Resources Development in Western Nepal. The researcher will also support the project leader with project coordination, monitoring and reporting activities.

This position is offered under IWMI's research theme on Water Futures. IWMI's mission is to provide evidence-based solutions to sustainably manage water and land resources for food security, people's livelihoods and the environment. The Water Futures research theme supports that mission by bringing scientific evidence into basin- and national-scale water planning dialogues and decisions, which is the purpose of this USAID project in Nepal. This research theme achieves its objectives through building up water accounting capabilities and information systems to investigate water balances and trends; developing scenarios of plausible futures that planners will need to be prepared for; assessing intervention options with stakeholders that could be part of effective water security solutions; and by creating tools to help analyze and visualize the trade-offs among options, and finding effective, robust and sustainable portfolios of solutions to increase food, water, energy and ecosystem security.

Because of the integrated nature of the problems, the team is interdisciplinary, and having the capacity to work across disciplines is important. The position is a good opportunity for dynamic, interdisciplinary and varied work experience. Because it involves some project coordination as well as hydrologic modelling, good organizational and communication skills are required.

The position holder will report to the Principal Researcher - Hydrology and be based at IWMI's office in Kathmandu, Nepal.

You will:

- serve as the local in-country project coordinator for this recently funded USAID project in Western Nepal;
- plan and execute components of research projects;
- utilize geographic information systems (GIS) as required for mapping and spatial analysis;
- undertake hydrological and hydrogeological modelling;
- contribute to the design and development of a water system model;
- conduct literature reviews, and primary and secondary data collection and analysis;
- participate in developing and sustaining relationships with partners; and
- co-author reports and journal articles.

You will possess:

- a MSc in hydrology, hydrogeology or water resources management;
- a minimum of 3 years' research experience in related disciplines;
- a good knowledge of basin-scale hydrological processes;
- a strong interest and background in integrative systems analysis, and development of tools to support water management decisions;
- knowledge and experience in planning and undertaking field sampling campaigns;
- proven skills in installing and collecting primary data from hydrometric field installations;
- a good knowledge of integrating field observations, and secondary spatial and temporal data into the development of distributed basin-scale hydrological models;
- a good knowledge of climate change issues and their manifestations in the water and agriculture sector;
- experience with integrating data from future climate change projections into hydrological models;
- knowledge of internet data sources related to water and natural resource management;
- a good understanding of integrated water resources management;
- a good track record of publications in international journals on relevant subjects.;

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- proven skills in data analysis and reporting;
- strong analytical and report writing skills;
- excellent presentation and communication skills in English, both oral and written;
- the proven ability to work independently and as part of a team;
- a good knowledge of setting up and running hydrological models;
- good project management skills;
- an inquisitive and positive attitude, and be self-motivated;
- a sensitivity to working in various environments and with people from different cultural backgrounds; and
- computer programming knowledge and proficiency (Fortran, C/C++, Java, Python).

It would be useful if you have:

- a PhD in hydrology or water resources management; and
- knowledge and experience in the application of remote sensing approaches in water resources assessment.

This is a nationally recruited staff position and only citizens of Nepal are encouraged to apply. IWMI offers a competitive salary and benefits package, which includes transport and health insurance. The duration of the contract will initially be for a three-year period with possible extension.

Please email your application to iwmi-nepal@cgiar.org

Closing date: July 18, 2016

The International Water Management Institute (www.iwmi.org) is an international, non-profit, scientific research organization dedicated to providing evidence-based solutions to sustainably manage water and land resources for food security, people's livelihoods and the environment. IWMI is a member of CGIAR, a global research partnership for a food-secure future.

IWMI is an equal opportunity employer and emphasizes the importance of regional and gender diversity in identifying candidates for this position and its staff more generally.

Please attach your curriculum vitae together with a cover letter, which addresses IWMI's requirements shown above, and the names and email addresses of three professional referees who may be contacted if you are short-listed for the position.