The person and the job:

If you have a PhD in Hydrology, Water Resources Management or a related discipline that has been awarded no more than 3 years ago, have an in-depth knowledge of the concepts of water accounting, and an in-depth understanding of basin hydrology and basin processes modeling, then you could be the person that the International Water Management Institute (IWMI) (www.iwmi.cgiar.org) is looking for to fill the position of Postdoctoral Fellow - Hydrology and Water Accounting. The position holder will be based at the headquarters of IWMI in Colombo, Sri Lanka, but the work will focus on major river basins throughout Asia and Africa. The incumbent will work under guidance from the Theme Leader - Water Availability and Access, and may be co-supervised by a relevant Senior/Principal Researcher.

You will:

• conduct research on water accounting in river basins across Asia and Africa;
• apply geographic information system (GIS) and remote sensing tools, methods and datasets in accounting for water use and productivity;
• develop new remote sensing-driven approaches for measurement of agriculture-relevant hydrological components in river basins;
• work in close contact with the GIS/RS and Data Management Unit at IWMI headquarters, and with other relevant GIS/RS contacts in the regional offices of the Institute, to operationalize the above at the scale of major river basins; and
• prepare journal articles, research reports and conference papers.

You must possess:

• a PhD in Hydrology, Water Resources Management or a related discipline (the PhD degree should have been awarded not more than 3 years prior to the time of application);
• an in-depth knowledge of the concepts of water accounting;
• an in-depth understanding of basin hydrology and basin processes modeling;
• knowledge of various indicators and metrics used for monitoring the environmental condition of basins;
• knowledge of remote-sensing driven approaches for the measurement of agriculture-relevant hydrological components at the basin scale;
• experience in water productivity assessment at the basin scale;
• competency in the application of GIS and remote sensing techniques to hydrological problems;
• strong analytical and numerical skills;
• the ability to process large hydrological and spatial datasets;
• independent and critical scientific thought;
• a good command of both oral and written English;
• the ability to effectively establish priorities, and plan, organize, implement and monitor work activities; and
• good interpersonal skills and the ability to establish and maintain effective working relations with people in a multicultural environment, with sensitivity and respect for diversity.

It would be useful if you have:

• knowledge of agricultural and water management issues in Asia and Africa;
• work experience in developing countries; and
• a proven record of relevant peer-reviewed articles in international journals, where the applicant is the first author.

A postdoctoral contract is available for two years and is non-renewable. IWMI salaries are competitive with those of similar international institutions and offer a range of benefits including housing and utilities allowance, vehicle allowance, education allowance, annual home leave, health insurance package and shipping assistance.

The International Water Management Institute (www.iwmi.org) is an international, non-profit research organization dedicated to improving the management of land and water resources for food, livelihoods and the environment. IWMI is a member of CGIAR, an international consortium of agricultural research centers.

IWMI is an equal opportunity employer and is keen to further diversify its staff in terms of both gender and nationality.