RS/GIS ANALYST
Colombo, Sri Lanka

The person and the job:
If you have a bachelor’s degree or higher in geography, natural resources, environmental science or a related field; or an equivalent combination of education and experience; or extensive professional experience; a RS/GIS Analyst position with the International Water Management Institute (IWMI) could be just the right assignment for you. The position holder will be based at the headquarters of IWMI in Pelawatte, Battaramulla, and will report to the Researcher, Remote Sensing and GIS.

You will:
• manage research activities on flood mapping and modeling in the Asia and Africa regions, which include acquisition/retrieval of remote sensing (RS) data, image processing, and analysis of flood inundation mapping and risk assessment;
• lead the processing of digital imagery using image processing software, such as ERDAS Imagine, ER Mapper or similar. The processing includes, but is not limited to, orthorectification, image classification, building textures, performing geometrical corrections, projection standardization, application of standard algorithms/models and preparation of standard outputs, including maps;
• Conduct thresholding and Fuzzy Rule-based classification approaches using multispectral imagery to support climate variability, natural resource and flood management applications, and incorporating and modelling auxiliary data into derived products;
• Develop tools and methodologies for value added products using satellite images;
• provide specialized services to research projects for data management and harmonization, and application development;
• train project staff and partners, and provide academic guidance to research students and interns in the use and application of remote sensing and geographic information system (GIS) techniques in water resources management;
• prepare research reports, journal articles, and other scientific manuscripts and presentations to disseminate research results; and
• contribute to IWMI’s overall research program;

You must possess:
• a bachelor’s degree or higher, ideally in geography, natural resources, environmental science or a related field; or an equivalent combination of education and experience; or extensive professional experience (as an advanced GIS user);
• three years of relevant professional experience in the field of RS/GIS;
• basic knowledge on model data development, and hydrology modeling tools and techniques;
• awareness of challenges posed by environmental impacts on global change, on the one hand, and rapidly developing RS/GIS techniques, on the other;
• a good understanding of the principles of optical remote sensing, and RS/GIS tools and software, such as ESRI GIS software, particularly ERDAS Imagine, IDRISI, HEC-HMS, HEC-RAS, SWAT and other similar software;
• experience in computer programming (e.g., IDL, R and Python scripts);
• knowledge of natural resource management and water resources management, and additional knowledge of modeling experience;
• good knowledge of available regional and global satellite data and environmental spatial datasets;
• the ability to work independently, and be self-motivated and enthusiastic;
• the ability to establish priorities, and plan, organize and monitor own work;
• commitment, reliability and efficiency, with good organizational and time management skills;
• the ability to work cooperatively and constructively within a team of diverse professionals (scientists, developers, administrators) and at differing geographical locations;
• the willingness to travel to national and international meetings; and
• excellent and effective oral and written communication and interpersonal skills.

It would be useful if you have:
• a higher degree in RS/GIS or a relevant discipline;
• experience in working with issues related to water and agriculture;
• previous work experience in developing countries and/or an international context;
• the ability to conduct trainings/workshops and develop training material on RS/GIS; and
• innovative thinking which challenges existing approaches and knowledge.

This is a nationally recruited staff position and only Sri Lankan citizens are encouraged to apply. IWMI offers a competitive salary and benefits package. This includes transport and health insurance packages. IWMI’s policy is to appoint staff initially on three-year contracts which are subject to renewal, depending on performance and the Institute’s requirements.

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.

Please submit your application on-line at:  www.iwmi.org/About_IWMI/Vacancies/

Closing date: June 9, 2013

Complete Application Form + attach your résumé + attach your letter which addresses IWMI’s requirements shown above with names and email addresses of 3 professional referees, to be contacted if you are short-listed

Your application will be acknowledged automatically within 24 hours. If not, please email us at work-at-iwmi@cgiar.org