

# Four Post-doc Positions Available in the Bill & Melinda Gates Foundation Funded Project on Pro-poor Sanitation Innovations

**Project title: Stimulating local innovation on sanitation for the urban poor in sub-Saharan Africa and South-East Asia**

## Background

UNESCO-IHE, The Netherlands, and the following partners: Makerere University in Uganda, KNUST in Ghana, AIT in Thailand, 2iE in Burkina Faso, ITB in Indonesia, UCT in South Africa, UFMG in Brasil, and Univalle in Colombia were awarded a US\$8 million grant from the Bill and Melinda Gates Foundation. The grant will be used to finance a 5-year capacity building and research project to stimulate local innovation on sanitation for the urban poor in sub-Saharan Africa and South-East Asia. To support the research component of the project 5 post-doc positions for junior researchers are funded by the project. The first position based at UNESCO-IHE in Delft is already allocated. This announcement concerns the remaining 4 positions in Uganda, Ghana, Thailand and Burkina Faso.

## Project description

The project entitled 'Stimulating local innovation on sanitation for the urban poor in sub-Saharan Africa and South-East Asia' has two principal objectives: *(i)* to stimulate local innovation on sanitation for the urban poor through research, and *(ii)* to strengthen the sanitation sector in developing countries through education and training. The direct beneficiaries of the project are individuals from developing countries and academic institutions involved in the project that are instrumental in stimulating local innovation on sanitation for the ultimate recipients of the project outcomes - the urban poor in sub-Saharan Africa and South-East Asia.

The project will: *(i)* increase the number of adequately trained sanitation professionals in developing countries, *(ii)* provide research possibilities, education and training for the new generation of 'all-round' sanitary engineers, *(iii)* make (post-graduate) education in sanitary engineering more accessible to individuals from developing countries, and *(iv)* further strengthen the pro-poor sanitation component at the academic institutions involved.

The 5-year project (2011-2016) will be jointly executed by UNESCO-IHE (principal grantee) and 8 partners from developing countries in sub-Saharan Africa, South-East Asia and South America (sub-grantees), supported by several external sub-contracting parties and individuals.

The project contains 7 components: *(i)* the post-doctoral program; *(ii)* the doctoral program and PhD scholarships; *(iii)* masters education and MSc scholarships; *(iv)* the new online Masters in Sanitary Engineering and scholarships; *(v)* two new online training courses; *(vi)* the new Professional Diploma and scholarships; and *(vii)* online courses and scholarships, and it targets more than 600 direct individual beneficiaries.

The research part of the project is clustered around 5 thematic areas/packages on pro-urban poor sanitation, each to be coordinated by one partner (the Research Package Leader - RPL): *(i)* smart sanitation provision for slums and informal settlements (Makerere University); *(ii)* emergency sanitation following natural and anthropological disasters (UNESCO-IHE); *(iii)* resource-oriented decentralized sanitation (AIT); *(iv)* low-cost wastewater collection and treatment (2iE); and *(v)* faecal sludge management (KNUST).

Outcomes of the project can be summarized as: *(i)* the research capacity and facilities of the partner institutions will be enhanced; *(ii)* an international academic network on pro-poor sanitation will be established; *(iii)* practical applications of innovation in sanitation for the urban poor will be put in place; *(iv)* a proposal for the business spin-offs will be developed; *(v)* human resource capacity will be increased in the sanitation sector; and *(vi)* there will be increased access of professionals from developing countries to education and training.

## Post-doc position information

- The positions are based at the premises of the 4 project partners (Makerere University in Uganda, KNUST in Ghana, AIT in Thailand and 2iE in Burkina Faso).
- The Post-doc fellow will report to RPL at the host academic institution.

- The Post-doc position is funded on a fellowship arrangement in accordance with standard practice applied at host institutions;
- Expected starting date is early 2012;
- Duration of the assignment is 2 years with possible extension for another term of 2 to 3 years;
- The Post-doc will have high degree of involvement and responsibility for the co-ordination and execution of the research package assigned to the host institution as a leader.
- The Post-doc will assist the RPL in daily project management in particular regarding the co-ordination of the research part of the project allocated to a host institution.

#### Position requirements

- Candidates should be young researchers from developing country, preferably from sub-Saharan Africa and South-East Asia, however researchers from other developing regions are encouraged to apply;
- Candidates must have a doctoral degree in a discipline relevant to the research themes, e.g. sanitary engineering, civil engineering, environmental sciences, environmental engineering, biochemistry, biotechnology etc.
- Applicants must demonstrate a strong interest and experience in conducting and managing experimental and interdisciplinary sanitation-related research;
- Applicants with pronounced organizational and managerial skills will be preferred;
- The applicant must be proficient in English and have excellent communication and writing skills; knowledge of French is considered advantageous for this position;

#### How to apply?

Applications, including curriculum vitae, the names and contact details of two referees, and a motivation letter, should be sent by email to a RPL of the preferred host institution by **23 December 2011**. Please put the subject heading "Post-doc application to BMGF project". Short-listed candidates will be contacted in the first week of January 2012. For further information please contact the relevant RPL (see contact details below).

#### ASIAN INSTITUTE OF TECHNOLOGY

Thammarat Koottatep, PhD  
Associate Professor  
PO Box 4, klong Luang  
Pathumthani 12120, Thailand  
Email: thamarat@ait.ac.th

#### THE KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Esi Awuah, PhD  
Associate Professor  
Department of Civil Engineering  
Private mail bag  
University Post Office  
KNUST – Kumasi, Ghana  
Email: esiawuahrt@yahoo.com

#### INTERNATIONAL INSTITUTE OF WATER AND ENVIRONMENTAL ENGINEERING

Amadou Hama Maiga, PhD  
Professor  
01 BP 594  
Ouagadougou 01  
Burkina Faso  
Email: amadou.hama.maiga@2ie-edu.org

#### MAKERERE UNIVERSITY

Frank Kansiime, PhD  
Professor  
College of Agricultural and Environmental Sciences  
PO Box 7062  
Kampala, Uganda  
Email: fkansiime@muienr.mak.ac.ug or cniwagaba@tech.mak.ac.ug