



IHE Delft Institute for Water Education offers graduate education in Delft, The Netherlands, and carries out research and capacity building projects all over the world. The mission of IHE Delft is to contribute to the education and training of professionals and to build the capacity of sector organizations, knowledge centres and other institutions active in the fields of water, the environment and infrastructure in developing countries and countries in transition.

IHE Delft has a permanent staff of 180, of which 90 are scientific staff, while about 250 guest-lecturers from academia and industry contribute to the educational programme. Each year 750 participants (incl. about 200 new MSc students per year) from all over the world attend the various regular and short courses at IHE Delft. The institute has an international staff & student community with English as working language.

The **Water Science and Engineering Department** conducts research and provides post-graduate education and training to professionals in the fields of water resources assessment and control, hydraulic engineering, hydrology/hydrogeology, various fields related to aquatic ecosystems and limnology, irrigation and drainage, navigation and hydropower, port and coastal engineering, and floods, droughts and pollution. The department is organized into six scientific chair groups: 1) Hydrology and Water Resources, 2) Hydraulic Engineering – River Basin Development, 3) Land and Water Development for Food Security, 4) Coastal systems, Engineering and Port Development, 5) Aquatic Ecosystems, and 6) Flood Resilience, each headed by a professor. For the chair group Land and Water Development for Food Security we are looking for a:

Postdoc in “Improving efficiency and environmental footprint in urban water cycle” – 1.0 FTE

Position Summary:

This postdoctoral position will be for 1FTE (5 days per week) for an initial duration of 1 year and be placed within the FRG chair group with strong collaboration with Water Services Management chair group. The position will directly contribute to the following sub-areas related to urban water cycle management with a strong emphasis on integrative elements and synergy:

- Improving efficiency and effectiveness of urban water services with special emphasis on rapidly developing cities.
- 2. Developing new and innovative asset management approaches to reduce wastage in urban water supplies.
- Address Sustainability of urban water services the context of rapidly changing supply and demand conditions (climate change, regulatory change, rapid urban growth, etc.)\
- Develop implementation and governance mechanisms or processes which focus on enhancing flood resilience in Urban environment that will cater to the current and future demands, as well as future adaptation needs.

The main topical focus of the position will be on developing innovative asset management of urban water services infrastructure with a focus on reducing wastage and improving efficiency of urban water services. The fellow will use a combination of technical (e.g. numerical modelling, engineering) and

managerial (e.g. improving agility of responsible institutions and governance structures) and social (e.g. improving social responsibility and awareness) to achieve these purposes. (S)he will also contribute to development of tools and products that are geared towards raising awareness and improving engagement of non-expert stakeholders.

Responsibilities:

- Develop and maintain a close working relationship with (a) Water Services Management chair group; (b) other relevant groups at IHE (e.g. Water Supply Core Group) and (c) Dutch water sector (especially water companies).
- Provide coordination and content support for AFMA project.
- Conduct original and applied research in the topic of urban water asset management and publish in scientific journals.
- Co-supervise MSc studies in related topics.
- Acquire and contribute to international capacity development, advisory and other projects.

Requirements:

- Bachelors/Master's degree in Civil Engineering or similar discipline.
- PhD degree with focus on a topic related to the topic's scope.
- Demonstrable experience in the use of hydraulic modelling of water networks (preferably including experience on water quality modelling, optimization and/or asset management)
- Demonstrated ability of publish in peer-reviewed journals as well as producing literature for non-expert readership.
- Experience in working with heterogeneous stakeholder groups (both within and outside academia)
- Prior experience in contributing to supervision of MSc/Phd studies would be an advantage
- Excellent verbal and written communication skills (in English)
- Good existing professional networks would be an advantage
- Experience in working in/with developing countries would be an advantage.

Information and application

Additional information can be obtained from Assela Pathirana, Associate professor of integrated urban water cycle management at Flood Resilience Core Group (T: +31 (0)152 151 854 or E: a.pathirana@un-ihe.org) or Deputy Head of Department, Ali Dastgheib (T: +31 (0)152151 777 or E: a.dastgheib@un-ihe.org).

Applications should be in English, and respond specifically to the requirements. The application, including curriculum vitae, motivation letter, statement of teaching and research interests and experiences and the names and contact details of two contactable referees, should be sent to IHE, attn. Human Resource Management (E: Recruitment@un-ihe.org), PO Box 3015, 2601 DA Delft, The Netherlands, **stating vacancy-number 17-WSE-05 before 15 October 2017 (Closing date)**. (The application should be in one PDF file with your family name as the filename),

Reactions from staffing agencies and other 3rd parties are not appreciated.