



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 200 of which more than 100 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) 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.

The department intends to further strengthen the expertise in the field of Hydraulic Engineering by recruiting a:

Lecturer/researcher in Hydraulic Engineering – 1.0Fte

Responsibilities

The new staff member will join the River Basin Development chair group that is focused on the balance of key elements of a river basin such as water and sediment, which implies the interaction of these with climate, geomorphology, the biosphere and human made constructions. The chair group develops engineering and management solutions for a sustainable use of the natural resources available within and across river basins, and it is within this framework that the successful candidate will develop and apply knowledge to inform education and institutional strengthening.

We seek a full time position for a lecturer with the ability to teach in the field of hydraulic engineering, more specifically basic and applied hydraulics, sediment transport and river engineering, hydraulic structures and hydropower. The candidate should develop experimental, field and/or numerical research on hydrodynamics, sediment transport and hydraulic infrastructures, at the reach or basin scale. The candidate should be able to participate in the acquisition of funding for the development of independent basic and applied research. The candidate should have a strong theoretical background on small scale hydrodynamics mechanisms and processes and should be able to upscale these to develop and apply tools to inform the design of water infrastructures and river basin planning. Experience in teaching and/or research in hydraulic engineering using experimental, field or numerical methods, is an advantage. A commitment to apply science to address hydraulic engineering challenges in the developing world is essential.

The successful candidate will develop his/her research line and is expected to contribute to and develop teaching in the *Water Sciences and Engineering MSc* programme and, where appropriate, other programmes. He/she is also expected to develop new educational materials, including online learning products, and to participate in acquisition and execution of institutional strengthening projects. This includes contribution to short- and on-line courses.

Requirements

- A PhD in civil, environmental or mechanical engineering (or similar) with an emphasis on hydraulics and/or fluid mechanics (the candidate should confirm that he/she has the PhD diploma before the starting date of the contract).
- A proven track record in scientific production in the field of hydraulics and water sciences.
- Affinity for the use of state of the art hydrodynamics modelling software.
- Affinity for analytical thinking and for programming for research purposes.
- Excellent communication and writing/reporting skills.
- An interest in teaching and sharing knowledge.
- Team player mentality and enthusiasm for working in a multidisciplinary and multicultural environment.
- Excellent command of the English language. Working knowledge of more than one “large language” is an advantage.
- Willingness to frequently travel and work abroad for short term assignments.

Terms of employment

This position is, in principle, a permanent one, however, the first two contracts offered are always temporary, and only after this period a permanent contract will be considered.

The position is based in Delft, The Netherlands. A competitive salary (grade 10\11) is offered in accordance with the conditions of employment for Dutch Universities. The appointment implies entry into the Netherlands' Civil Service Pension Fund (ABP). Candidates are to be prepared to carry out short-term missions abroad.

Information and application

Additional information can be obtained from Prof. Mário Franca, Head of the River Basin Development chair group (m.franca@un-ihe.org), or Dr. Ali Dastgheib, Deputy Head of Water Science Engineering Department (a.dastgheib@un-ihe.org).

Applications (in English), should respond specifically to the requirements, and can be sent until **15th June 2018 (closing date)** including curriculum vitae, motivation letter and the names and contact details of two contactable referees (*as one PDF file with your family name as the filename*), to IHE Delft, attn. Human Resource Management (E: recruitment@un-ihe.org), stating vacancy-number **18-WSE-02**.

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