Asst./Assoc. Professor of Experimental Soil Mechanics

Faculty/department Civil Engineering and Geosciences
Level PhD degree
Maximum employment 38 hours per week (1 FTE)
Duration of contract Tenure track
Salary scale €3259 to €6039 per month gross

Civil Engineering and Geosciences

Delft University of Technology is the largest technical university in the Netherlands and internationally leading in scientific research. The Section of Geo-Engineering is within the Department of Geoscience & Engineering, one of six departments within the Faculty of Civil Engineering & Geosciences. There is considerable scope and encouragement for inter-disciplinary research. Currently there are collaborations with the Sections of Structural Mechanics, Hydraulic Engineering, Offshore Engineering, Remote Sensing, Applied Geology, Petroleum Engineering and Applied Petrophysics & Geophysics.

The Section of Geo-Engineering has 8 full-time and 6 part-time academic staff, 3 support staff and 30 PhD/Post-Doc researchers. Areas of expertise include soil mechanics, dikes & embankments, foundation engineering, underground space technology, engineering geology and geo-environmental engineering. There are extensive experimental laboratory facilities for the testing and physical modelling of coupled geo-mechanical processes and geotechnical problems, including 2 geotechnical centrifuges. It has close links with the onshore/offshore industries and with the Dutch research institute Deltares.

Job description

Applications are invited for an Assistant/Associate Professor in Experimental Soil Mechanics, to be based within the Section of Geo-Engineering in the Faculty of Civil Engineering and Geosciences. The Section focuses on internationally leading research into the testing, characterisation, modelling of, and engineering in, problematic and heterogeneous soils. Current research initiatives include: the short and long term behaviour of deltaic soft clays and organic soils such as peat; the liquefaction and internal erosion of loose sands and other estuarial deposits; the behaviour of stiffer clays associated with the deep geological disposal of radioactive waste; and soil-structure interaction. Research is also being conducted on the geo-mechanics of materials arising from industrial processes. Applicants from any area of experimental soil mechanics are welcome to apply. Particular areas of interest for the Section include: soft soil engineering; the influence of climate change on geotechnical constructions; offshore geo-mechanics; and the interaction between biogeochemical processes and soil mechanics. The successful candidate will be expected to contribute fully to the educational activities of the Section at the BSc, MSc and PhD levels.

Requirements

Applicants should possess a PhD and have research experience in Experimental Soil Mechanics. They should demonstrate outstanding research potential and have published

in peer-reviewed, international scientific journals. The successful candidate will be expected to initiate, acquire, execute and coordinate research projects. Team building qualities and communication skills are therefore important. Close cooperation with other members of the scientific staff of the Section and wider university is essential. Inspiring lecturing skills are considered crucial for stimulating student interest.

Conditions of employment

TU Delft offers an attractive benefits package, including a flexible working week, free high-speed internet access from home (with a contract of two years or longer), and the option of assembling a customised compensation and benefits package (the 'IKA'). Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

The Tenure Track, a process leading up to a permanent appointment with the prospect of becoming an Associate or full Professor, offers talented academics a clear and attractive career path. During the Tenure Track, you will have the opportunity to develop into an internationally acknowledged and recognised academic. We offer a structured career and personal development programme designed to offer individual academics as much support as possible. For more information about the Tenure Track and the personal development programme, please visit www.tudelft.nl/tenuretrack.

Appointees are expected to be proficient in written and spoken English.

Information and application

For more information about this position, please contact Prof. M. A. Hicks, phone: +31 (0)15-2787433, e-mail: m.a.hicks@tudelft.nl, or Prof. C. Jommi, phone: +31 (0)15-2784173, e-mail: c.jommi@tudelft.nl. To apply, please e-mail the following materials: a curriculum vitae, including list of publications, the names and contact details of three professional referees, copies of three significant publications, a personal research statement, and a personal teaching statement. Please submit your application by 7 January 2014 to Drs D. Verbunt, Recruitment-CiTG@tudelft.nl.

When applying for this position, please refer to vacancy number CITG13-23