

Assistant/Associate Professor in Soil Mechanics

Engels -- Faculty/department Civil Engineering and Geosciences
Level PhD
Maximum employment 38 hours per week (1 FTE)
Duration of contract 4 years initially
Salary scale €3195 to €5920 per month gross

Civil Engineering and Geosciences

The Faculty of Civil Engineering and Geosciences provides leading, international research and education in road and water engineering, earth sciences, traffic and transport control, and delta technology. Innovation and sustainability are central themes. The research addresses global social issues and is closely interwoven with education as well as with the work carried out by a broad spectrum of knowledge institutions. The faculty consists of 17 sections distributed among the Departments of Design & Construction, Hydraulic Engineering, Transport & Planning, Water Management and Geotechnology.

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

The Geo-Engineering Section has nine full-time and eight part-time academic staff members, a support staff of four, and around 30 PhD and post-doctoral researchers. Areas of expertise include soil mechanics, foundation engineering, underground space technology, engineering geology and geo-environmental engineering. The section boasts a world-class experimental laboratory including two geotechnical centrifuges and excellent computational facilities. It has close links with the onshore and offshore industries and with the Dutch research institute Deltares.

Job description

Applications are invited for an Assistant/Associate Professor in Soil Mechanics, to be based within the Geo-Engineering Section in the Faculty of Civil Engineering and Geosciences. The section focuses on internationally leading research into the testing, characterisation and 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, and the behaviour of stiffer clays associated with deep geological disposal. Research is also being conducted on geo-materials arising from industrial processes. Applicants from any area of experimental or computational soil mechanics are welcome to apply. Particular areas of interest for the section include the mechanics of soft soils, the

mechanics of unsaturated soils, offshore geo-mechanics, and numerical methods. The successful candidate will be expected to contribute fully to the educational activities of the Geo-Engineering Section at the undergraduate and post-graduate levels.

Requirements

Applicants should possess a PhD in Soil Mechanics or a related discipline. They should be able to 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

Initially this will be a temporary contract for four years, with the intention of converting the contract into permanent employment after four years. The salary of the Assistant Professor is based on scale 11 or 12 (maximum € 4970 gross per month with a full-time appointment) and for the Associate Professor it is based on scale 13 or 14 (maximum € 5920 gross per month with a full-time appointment). The TU Delft also has an attractive package of secondary employment benefits, such as a flexible working week, a free ADSL connection at home and the opportunity to put together an individual remuneration package via the individual choice model terms of employment. Benefits and other employment conditions are in accordance with the Collective Labour Agreement for Dutch Universities. TU Delft has signed the Charter Talent to the Top and wants to increase the number of women within its staff. Women are especially encouraged to apply. TU Delft sets specific standards for the English competency of the teaching staff. TU Delft offers training to improve English competency.

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. To apply, please e-mail a detailed CV, a list of publications, three references and a letter of application by 1 June 2011 to Mr. W.A. Maertens, Recruitment-CiTG@tudelft.nl.

When applying for this position, make sure to mention vacancy number CITG11-16.