

Professor of Subsurface Engineering

Faculty/department Civil Engineering and Geosciences

Level PhD degree

Maximum employment 38 hours per week (1 FTE)

Duration of contract 5 years

Salary scale €5103 to €7431 per month gross

Civil Engineering and Geosciences

The Faculty of Civil Engineering and Geosciences of Delft University of Technology (TU Delft) provides leading international research and education, with innovation and sustainability as central themes. Research and education are closely interwoven and address societal challenges. The Faculty consists of the departments of Transport and Planning, Structural Engineering, Geoscience and Engineering, Water Management, Hydraulic Engineering, and Geoscience and Remote Sensing.

The Department of Geoscience and Engineering encompasses five sections: Applied Geology, Applied Petrophysics and Geophysics, Geo-engineering, Resource Engineering, and Petroleum Engineering. Within the department there is considerable scope and encouragement for inter-disciplinary research. Current collaborations between Geo-engineering and the wider Faculty include the Offshore Engineering section and the Departments of Structural Engineering, Hydraulic Engineering, and Geoscience and Remote Sensing.

The Geo-engineering section has eight full-time and six part-time academic staff, and 30 PhD and post-doctoral researchers. Areas of expertise include soil mechanics, dykes and embankments, foundation engineering, underground space technology, engineering geology, and geo-environmental engineering. There are extensive experimental laboratory facilities, including large-scale soil-structure interaction testing facilities and a geotechnical centrifuge. The section has close links with the onshore and offshore industries and with the Dutch research institute Deltares.

Job description

Applications are invited for a full Professor of Subsurface Engineering, to be based within the Geo-engineering section. This chair is a merger of the former part-time chairs of Foundation Engineering and Underground Space Technology, and concerns the practical implementation of geotechnical engineering concepts to address issues such as optimisation of foundation design, construction of tunnels in built-up areas, geo-risk management, sustainability, safety, and so on. The successful candidate is expected to play a key role in the practical field of Subsurface Engineering and will be responsible for continuing/developing the research programme and related educational activities. He/she is also expected to lead a cross-departmental group focusing on research and education in this field.

We aim for a professor with proven research qualities in combination with proven capacities to reach out to the construction industry and the wider subsurface engineering community. To emphasise the need for a candidate with an industry-focused attitude, we

offer this full-time (1.0 FTE) position based on 0.8 FTE at TU Delft and 0.2 FTE at Deltares (www.deltares.nl). We aim for a candidate with the capacities and desire to develop an application-inspired fundamental research programme of international standing.

Requirements

Applicants should possess a PhD in Geotechnical Engineering or another related discipline. They should have strong links with the international engineering profession and have a strong track record of publications in geoenvironmental engineering. They 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 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.

TU Delft sets specific standards for the English competency of the teaching staff. TU Delft offers training to improve English competency.

Inspiring, excellent education is our central aim. If you have less than five years of experience and have not yet obtained your teaching certificate, we allow you up to three years to complete this.

Information and application

The University is partnering with the executive search firm Perrett Laver on this appointment. Further information, including details of how to apply, can be downloaded at <http://www.perrettlaver.com/candidates> quoting reference 2072. For informal inquiries please contact Joe Fitzpatrick on joe.fitzpatrick@perrettlaver.com or +44 207 340 6267.

Applications should consist of a letter of application, a clear vision statement addressing the requirements, a detailed curriculum vitae including publication list, and the contact details of three referees. These can be uploaded at www.perrettlaver.com/candidates, quoting reference 2072. The closing date for applications is Monday, 3rd August, 2015.