

Technical Asset Management - Pavement (Tenure Track)

Faculteit/afdeling: Civil Engineering and Geosciences

Niveau: Gepromoveerd

Functie-omvang: 38 uur per week

Contractduur: Tenure track

Salaris: €3400 to €4654 per month gross

U bekijkt een vacaturetekst die opgesteld is in het Engels. Delen van de tekst zullen in het Engels verschijnen!

Civiele Techniek en Geowetenschappen

De faculteit Civiele Techniek en Geowetenschappen (CITG) legt zich toe op internationaal toonaangevend onderzoek en onderwijs op het gebied van weg- en waterbouw, technische aardwetenschappen, verkeer en vervoer, watertechnologie en deltatechnologie. Het onderzoek beslaat wereldwijde maatschappelijke vraagstukken en is nauw verweven met zowel onderwijs als het werk van een breed scala aan kennisinstituten. De faculteit CITG bestaat uit 18 secties verdeeld over de 6 afdelingen: Bouw & Infra, Geotechnologie, Geoscience and Remote Sensing, Transport & Planning, Waterbouwkunde en Watermanagement.

The Department of Structural Engineering engages in research and education in the fields of integral and structural design for civil infrastructure and the structural design of buildings. The department implements three perspectives:

Science: the fundamental disciplines required to understand the behaviour of structures and materials.

Engineering: studies how materials can be applied in structures.

Design: what do design and the design process entail?

The department's activities provide a major contribution to societal themes such as asset management, new (sustainable) materials and their application to various types of structures.

The education and the research programme of the Pavement Engineering Section concentrate on the characterisation of pavement materials at various length scales, using both experiments and numerical models and the design and maintenance of various types of pavements.

The Section is equipped with state-of-the-art experimental facilities which cover the whole scale range, from chemical and nano scales like infrared spectroscopy (FTIR), atomic force microscopy (AFM) and nano CT scans, to full-scale accelerated pavement tests in our LINTRACK facility. Powerful parallel computing facilities enable us to develop and apply advanced numerical models for research at all these levels of material response.

Functie omschrijving

A Tenure Track offers the opportunity to develop into an internationally acknowledged and recognised academic in your field. The field of Technical Asset Management for pavements deals with the challenges of determining the lifespan of pavements. Since over time new materials will be used, this involves both the assessment and monitoring of existing pavement structures and the validation of innovative materials and techniques. This requires insight into and affinity for a wide range of topics, including monitoring methods, methods to combine various data types and sources, various scale validation procedures and approaches that combine numerical and experimental techniques as well as laboratory and field performance with a view to current and future policies and regulations. Translation of the acquired knowledge into practical advice on projects of the Dutch highway authority (Rijkswaterstaat) is an important part of the work.

A Tenure Track, a process leading up to a permanent appointment with the prospect of becoming an Associate or full Professor, offers young, 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.

Functie eisen

Applicants have a PhD in a topic related to pavement engineering as well as extensive experience with both non-linear finite element and experimental techniques. They have excellent verbal and written communication skills in English. They will contribute to Rijkswaterstaat projects and acquire the necessary proficiency in Dutch. They will participate in the educational activities of the Section and have demonstrable experience with more than two of the following themes: lifetime assessment/ technical asset management, pavement monitoring, (remote) sensing, laboratory scale material testing and modelling, non-linear finite element analysis, (big) data analysis. Post-doctoral experience is considered a strong advantage.

Arbeidsvoorwaarden

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

The TU Delft sets specific standards for the English competency of the teaching staff. The 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 do not yet have your teaching certificate, we allow you up to three years to obtain this.

Informereren en solliciteren

For more information about this position, please contact Prof. S.M.J.G. Erkens, phone: +31 (0)15-2785949, e-mail: S.M.J.G.Erkens@tudelft.nl. To apply, please e-mail a detailed CV, two references, a list of publications and a letter of application by 24 June 2016 to recruitment-citg@tudelft.nl. When applying for this position, please refer to vacancy number CITG16-22.

Acquisitie naar aanleiding van deze vacature wordt niet op prijs gesteld.



Direct solliciteren

Factsheet

Faculteit/afdeling

Civiele Techniek en Geowetenschappen

Niveau

Gepromoveerd

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Functie-omvang

Sluit