

RESEARCHER

Constitutive Modelling

Plaxis bv is world market leader in the field of development, sales and support of 2D and 3D finite element software for geotechnical calculations. The software is mainly used by engineering consulting firms who are involved in analysis and design of large construction and infrastructural projects. With the high-tech products, Plaxis is at the base of many prestigious projects all over the world. In Delft, 50 professionals are active in the field of research, development, marketing and user services.

The Plaxis Research team is involved in research, development of computational software components and high-end services. Here, a direct or indirect contribution is given to the development of the advanced PLAXIS products and the fulfillment of client needs. Due to expansion there is currently a vacancy for a researcher with proven experience in (soil) constitutive modelling.

TASK DESCRIPTION

Constitutive models describing the non-linear stress-strain relationship for soils and rocks are among the key components of the PLAXIS software. Robust implementation of such models in an implicit integration algorithm is part of the success of PLAXIS. For the coming period new advanced models for cyclic loading, viscous behaviour and temperature effects are planned to be implemented. The new researcher will become part of the team of specialists responsible for the implementation, testing and validation of these models.

WE OFFER

- Position in the Plaxis Research team
- Market conform salary and benefits
- Stimulating innovative and knowledge-driven work environment
- Position to work on internationally renowned software products

REQUIREMENTS

The candidate should possess the following qualifications:

- PhD degree in geotechnical, mechanical, civil, structural or aeronautical engineering, with specialisation in computational methods and constitutive models (stress-strain relationships) for continua
- Proven hands-on experience with the implementation of constitutive models in FORTRAN, C and/or C++
- Affinity with geo-engineering
- Team player; good communication skills

APPLICATIONS

Send a letter, fax or e-mail to the attention of Dr. Ronald Brinkgreve including a job application letter and your resume (CV) to the contact information below.

CONTACT

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