

Professor in Geotechnical Engineering and Soil Mechanics

DTU Civil Engineering at the Technical University of Denmark invites applications for a position as Professor in Geotechnical Engineering and Soil Mechanics.

DTU Civil Engineering is a department with the overall mission of contributing to research, development and education within the following scientific areas: construction materials, concrete properties, construction structural design, fire safety, indoor environment, geotechnics, geology and solar energy.

The professor will be attached to the section of Geotechnics and Geology, one of the 7 sections comprising the Department. This section presently employs 10 persons including faculty in the area of Geotechnical Engineering and Soil Mechanics.

The professor is expected to contribute to research and education in one or more of the following topics:

- Soil mechanics
- Probabilistic modeling
- Reliability analysis
- Geotechnical engineering
- Computational mechanics
- Constitutive soil modeling
- Soil – Structure - Interaction
- Experimental methods in geotechnical engineering
- Numerical modeling in geotechnical engineering

The professor is expected to facilitate collaboration on cross-disciplinary projects and to take part in work with government agencies. Furthermore it is expected to form and manage theme based research groups and the candidate must be able to take academic leadership.

Responsibilities and tasks

Through the professorship DTU wishes to strengthen and develop a particular area. The duties consist of research, teaching, innovation or public sector consultancy:

- Research (including publication/scientific dissemination duties)
- Research-based teaching (with associated examination duties)
- Academic leadership – in order to strengthen and develop the specific field
- External collaboration
- Other duties:
 - Innovation and/or public-sector consultancy
 - Knowledge sharing with the public
 - Educational guidance and supervision of assistant professors and researchers
 - Academic assessment work.

The Section of Geotechnics and Geology holds a close collaboration with all the other sections within the department of Civil Engineering. Additionally the section is engaged in joint research and education programs within the scope of CERE and ARTEK centers.

The successful candidate is expected to take a lead position in teaching at the bachelor-, master- and PhD levels.

Qualifications

HR Rekruttering

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Professors are expected to make a special effort as regards research/innovation and research management. Generally speaking, professors are expected to perform over and above the qualification requirements for the post which are as follows:

- A high degree of original scientific production at international level that has contributed to the further development of the area of geotechnics
- Documented and successful teaching experience at various different levels within the courses offered by the university, particularly at the PhD level
- Documented experience in research management, including the performance of management tasks linked to national or international projects, research programmes, conferences, etc.

Assessment

In the assessment of the candidates consideration will be given to

- the ability to teach
- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to promote and utilize research results
- experience with innovation activities
- an all-round experience basis, including international experience
- the ability to contribute to the development of the Department's internal and external cooperation
- track record in attracting funding to the research area
- visions within the research area

Salary and terms of employment

The appointment will be based on the collective agreement with the Confederation of Professional Associations. The allowance will be agreed with the relevant union.

Further information

Further information may be obtained from Head of Department Michael Havbro Faber, +45 4525 1747.

You can read more about the Department on <http://www.byg.dtu.dk/english>

Application procedure:

Please submit your online application no later than **XXX 2014**.

Applications must be submitted as **one pdf file** containing all materials to be given consideration. To apply, please open the link "Apply online," fill in the online application form, and attach **all your materials in English in one pdf file**. The file must include:

- Application (cover letter) addressed to the President
- CV
- List of publications indicating scientific highlights
- Documentation of teaching experience
- A plan for future research

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.