

Professor in E-learning within the field of Concrete and Structures

DTU Civil Engineering at the Technical University of Denmark invites applications for a position as Professor with special assignments (MSA) in e-learning, teaching and education within the field of concrete and structures. The teaching and education is related to a scientific focus on structures and concrete including light weight concrete.

DTU Civil Engineering is a department with the overall mission of contributing to research, development and education within the following scientific areas: Arctic Technology, Construction Materials, Building Design, Building Physics, Structural Engineering, Geotechnics and Indoor Environment.

The professor will be attached to the Section of Structural Engineering, which is one of the six sections comprising the Department, employing about 200 persons including a scientific staff of about 80.

The overall strategic goal of the Section of Structural Engineering is to ensure continued development of the design of load-carrying structures and to ensure the application of best practice. This requires developing new and improved tools for analysis and design as well as increasing the basic knowledge of the behavior of load-carrying structures.

Responsibilities and tasks

The Department wishes to introduce and further develop e-learning activities related to educational teaching duties. The Section of Structural Engineering wishes to further develop and consolidate the e-learning activities in the field of concrete and structures. For this purpose the DTU Civil Engineering wishes to attract a professor with clear goals in performing this task.

The successful candidate is expected to perform research and innovation within analysis and design of concrete structures in collaboration with other faculty and industry.

The successful candidate will have broad educational duties in the section and will be responsible for developing and promoting e-learning activities within teaching, e-examination and post graduate education. The candidate is furthermore expected to participate in the leadership of bachelor educations and to take on managerial duties of the department, possibly as head of studies.

The position duties are research, with special assignments for research-based e-learning, education and teaching:

- Research (including publication/scientific dissemination duties)
- Research-based teaching (with associated examination duties)
- Education
- Further develop e-learning in structural engineering and in possession of documented original scientific production
- Academic leadership
- External collaboration
- Other duties:
 - Knowledge sharing with the public
 - Educational guidance and supervision of Assistant Professors and Researchers
 - Academic assessment work.

The successful candidate is expected to take a lead position in teaching at the bachelor-, master- and PhD levels as well as in the leadership of the education. The candidate is also expected to collaborate with the Learning Lab DTU (UDTU) and other DTU departments utilizing e-learning.

Qualifications

The qualification requirements are as follows:

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- In order to be offered the post, applicants must have scientific production which has contributed to the further development of the subject area in question.
- Documented and successful teaching experience at various different levels within the courses offered by the university.
- A significant level of effort within the area of teaching in several of the following areas: Establishment of new courses, renewal of courses, preparation of teaching material, further teacher training and publications in international education journals.
- A significant level of effort within the area of education in several of the following fields: Planning and implementation of courses, evaluation of courses, the performance of managerial duties for courses, further training in didactics, active participation in both national and international for a for education, publication in international education journals.
- State of the art practical design of concrete and structures.
- Practical experience with e-learning activities and course presentation.

Assessment

In the assessment of the candidates consideration will be given to

- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to teach
- 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 1787.

You can read more about DTU Civil Engineering on www.byg.dtu.dk

Application procedure

Please submit your online application no later than **XXX 2013**.

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
- A research and teaching vision, which outlines long and short term strategies.
- A position statement, which describes the national and international position of the applicant.
- Copies of relevant publications to be considered by the assessment committee.

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