

Professor (with special responsibilities) in Water Technology Innovation

DTU Environment at Technical University of Denmark invites applications for a position as Professor (with special responsibilities) in Water Technology Innovation.

DTU Environment is a department with the overall mission of contributing to research, development, and education within the following scientific areas: Atmospheric Environment, Urban Water Systems, Water Technology, Water Resources Engineering, Environmental Chemistry, and Residual Resource Engineering.

The professor will be part of the section for Water Technology—one of the water sections and one of the 6 sections comprising the Department, employing 180 persons including, presently, a faculty of 30.

Responsibilities and tasks

The professor must strengthen the department's research and research-based teaching in the field of water treatment innovation. Relevant focus areas could include

- Experiment-based research and development aimed at innovation of water treatment technologies—e.g. in relation to physicochemical treatment and membrane technology
- Development of new water treatment technologies for specific water use, mechanism-driven and based on process understanding
- Development of new and optimization of existing water treatment systems
- Development of innovation at the department and the strategic alliances between DTU and industry, internally at DTU and at the department

Furthermore, the professor is expected to provide mentoring and supervision of graduate students, to collaborate with the other sections of the department, other DTU departments, industry and other external stakeholders, and to facilitate wider knowledge-exchange with society at large. Collaboration could include contributions to development of BEng and continued education activities within water treatment in collaboration with other faculty members, and developing a course in innovation and entrepreneurship for water technology students, involving, e.g., Skylab.

Commitment to collaborating with the faculty and staff of the department is essential.

The professor is expected to participate in teaching at the BSc, MSc, and PhD levels.

Qualifications

The ideal candidate should have experience with and ability to work and publish in a collaborative international research environment, have close contact to the water industry, interact well with students, public authorities, utilities, and industrial partners, and be a committed educator. The candidate must demonstrate scientific curiosity, be flexible, have the ability to work collaboratively in teams, identify and develop new research areas, think holistically in an interdisciplinary and applied manner.

Special efforts are expected in the areas of research and innovation, as well as potential for research-related leadership. Generally speaking, the professor is expected to provide input in extension to the qualification requirements for the position, which are:

- A high level of original scientific production at international level, with the potential to contribute to the further development of the subject area in question.
- Documented experience in at least one of the following fields:
 - Research management, including handling management tasks in national or international projects, research programmes, etc.
 - Teaching experience at various levels on University study programmes—including and in particular at PhD level—as well as the potential to become a successful teacher.
 - Innovation, including building up patent areas, applying research results in a commercial/industrial context, etc.

Assessment

In the assessment of the candidate, consideration will be given to

- the candidate's qualification for handling the special, function-related assignment(s) that are associated with the position
- 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 internal and external cooperation
- the ability to attract funding to the research area
- visions within the research area

Salary and appointment terms

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

The position is available for a 5-year period and may be extended for up to 3 years more.

Further information

Further information may be obtained from Head of Department Thomas H. Christensen, tel.: +45 4525 1603 or thho@env.dtu.dk.

You can read more about DTU Environment on www.env.dtu.dk

Application procedure:

Please submit your online application no later than **April 2017**.

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
- Diploma (MSc/PhD)
- List of publications indicating scientific highlights
- H-index, and ORCID (see e.g. <http://orcid.org/>)
- Documentation for teaching experience (e.g. in the form of a teaching portfolio)
- A plan for future research

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