

Professor (with special responsibilities) in Offshore Wind Grid Integration

DTU Wind Energy at Technical University of Denmark invites applications for a position as Professor (with special responsibilities) in Offshore Wind Energy with focus on grid integration of offshore wind power.

DTU Wind Energy is a department at Technical University of Denmark with the overall mission to develop and create value using the natural and technical sciences and focusing on wind energy for the benefit of society. This includes research and education in siting and integration, wind turbine technology, and offshore wind energy as well as scientific advice and testing and other research-based services. The department is an internationally leading center in wind energy and cooperates with industry and institutions worldwide.

The professor will be an important part of the section for Integration and Planning and the cross-sectional research and innovation programme on offshore wind energy.

Responsibilities and tasks

The position covers research and education, as well as innovation, in Offshore Wind Energy with special focus on grid integration of wind power. This includes

- Control of offshore wind power technology
- Design and optimization of offshore electrical infrastructure
- Development and operation of offshore—AC and HVDC—grids for integration of wind power
- Establishment of an Offshore Wind Integration lab for research and education
- Supervision of BSc and MSc students, PhD students, and post-docs
- Teaching of Offshore Wind Grid Integration at the department's MSc programmes and at PhD level

The candidate is further expected to

- Strengthen collaboration between the department's sections and with other departments at DTU
- Extend the international collaboration through collaborative projects
- Attract funding to the research in offshore wind grid integration
- Publish and coordinate dissemination at an international scientific level

The professor is expected to participate in teaching at the BSc, MSc, and PhD levels. Candidates who do not speak Danish should be willing to learn Danish within the first two-three years in order to be able to teach in Danish.

Qualifications

Candidates should have well-documented international recognition within their research field. Emphasis will be on the ability to combine a high research level with promotion of external cooperation and exploitation of research results. A national and international network within the research community, including industrial partners, is given high priority

Additional requirements include:

- A high level of original scientific production at international level, with the potential to contribute to the departments further development of the scientific field
- A solid track record of acquiring national and international external funding
- Documented ability and experience in developing and maintaining international research and innovation network
- The ability to lead computational and experimental research within offshore wind grid integration
- Well-developed supervision skills for students, PhD students and post docs

- Teaching skills at all levels on the University's study programmes. Experience in developing new courses.
- Research management, including handling management tasks in national or international projects, research programmes, congresses, etc.

Assessment

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

- Experience and quality of teaching and curriculum development
- Research impact and experience, funding track record, and research vision
- Societal impact
- Documented innovation activities, including commercialization and collaboration with industry
- International impact and experience
- Leadership and collaboration
- Communication skills

For the specific position consideration will also be given to:

- Proven success in managing research teams and other groups of employees
- Experience with project management
- Candidates with initiative and a motivating energy
- The ability to work in an environment with many nationalities and professional areas
- Proficiency in English

We offer

DTU is a leading technical university globally recognized for the excellence of its research, education, innovation and scientific advice. We offer a rewarding and challenging job in an international environment. We strive for academic excellence in an environment characterized by collegial respect and an academic freedom tempered by responsibility.

Salary and appointment terms

The appointment will be based on the collective agreement with the Danish 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. At the end of the period, the employee in question transfers to a position as associate professor at the university. More information can be found here: [Career paths at DTU](#).

Further information

Further information may be obtained from Head of Department Peter Hauge Madsen, +45 4677 5001 or the Head of the Integration and Planning Section, Jens Carsten Hansen, +45 4677 5074.

You can read more about DTU Wind Energy on www.vindenergi.dtu.dk

Application procedure:

Please submit your online application no later than **XXX 2018 (Local time)**.

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
- A vision for future research
- Views regarding teaching and research based on the "Assessment" bullets
- Documentation of previous teaching and research based on the "Assessment" bullets
- List of publications indicating scientific highlights

Corporate HR

Revised: September 2016

- H-index, and ORCID (see e.g. <http://orcid.org/>)
- Diploma (MSc/PhD)

Applications and enclosures received after the deadline will not be considered.

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