Anbieter

Universität
Universität Stuttgart

Institut/Einrichtung
Stuttgarter Lehrstuhl für Wind Energie (SWE) am Institut für Flugzeugbau

Kategorie
Wissenschaftl. Stellen

Angebot

Titel
Researcher Floating Offshore Wind Turbines

Einsatzort
Allmandring 5B
70569 Stuttgart
Deutschland

Beschreibung
SWE’s research group “Conceptual Design and System Simulation” has performed successful research on floating offshore wind turbines since 2009. We use dedicated simulation models ranging from simplified concept-level tools to high-fidelity CFD methods, which makes it possible to select the best tools for our projects. Recent projects have investigated how to reduce ultimate and fatigue loads on floating platforms, by optimized system behavior towards environmental loading. As first prototypes of floating turbines are now available, the location of sensors, their communication and the postprocessing of data, connected to monitoring techniques for early failure detection, are questions of current research. Reliability, uncertainty quantification and probabilistic design become more and more important as the technology matures. In future we will investigate how to optimize the overall power production in a floating wind farm by moving single turbines, depending on wind conditions.

Your responsibilities:
We are looking for a candidate with interest in scientific work, ability to work in international projects and with the enthusiasm to push things forward, to support new project applications and familiarize with unknown subjects.

In addition to the research activities, tasks will include supporting SWE’s teaching activities (lectures and supervision of student theses), managing research projects, and other activities within SWE as required to support SWE.

What we can offer you is:

- An internationally recognized, young and motivated team of researchers
- A versatile and interdisciplinary job and the possibility to pursue a PhD
- Contacts to international research institutions and companies in the field of wind energy

Anforderungsprofil

Applicants should have the following qualifications:

- A Master of Science degree (or equivalent) in fields of engineering like mechanical, aerospace, naval architecture, or cybernetics with extensive knowledge in modeling and simulation.
- Basic knowledge in wind energy and naval architecture is beneficial.
- Creativity, analytical skills, and perseverance for scientific work.
- Excellent communication skills in spoken and written English as well as German are necessary.
The University of Stuttgart strives to increase the number of females in science and encourages women to apply. Applicants with disability and with equal qualifications will be given preference.

Vergütung: TVL E13

Art der Beschäftigung: Vollzeit

Zeitraum der Beschäftigung: nach Vereinbarung

Bewerbungsfristende: Sonntag, 30. September 2018 - 23:59

Kontakt

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