Anbieter

Universität
Universität Stuttgart

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

Kategorie
Wissenschaftl. Stellen

Angebot

Titel
Researcher / Research Assistant - Wind farm control

Einsatzort
Allmandring 5B
70569 Stuttgart
Deutschland

Beschreibung

Stuttgart Wind Energy (SWE) is part of the Institute of Aircraft Design. SWE’s research group “Control, Optimization and Monitoring” is working to improve the operation of wind turbines through novel control strategies to reduce loads and increase the energy yield of wind turbines/wind farms. SWE is part of the H2020 research project CL-Windcon which deals with new wind farm control technologies. SWE’s expertise in lidar measurements has led to the application of lidar-assisted control concepts which are being investigated within the project.

The main task of the candidate will be to contribute to the CL-Windcon project. Within this project he/she will help develop controllers for wind farm control, optimize wind farm layout taking into account the control capabilities, and optimize operational strategies using the sensing capabilities of lidar systems, SCADA data and control-oriented prediction models. In each study case, different control goals can be formulated and need to be evaluated.

Your responsibilities:

We are looking for a candidate with great interest in scientific research, ability to work in international projects and with the enthusiasm to push technological boundaries, to support new project applications, and someone who is not afraid to explore new terrain.

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.

What we can offer you:

◆ An internationally recognized, young and motivated team of researchers.
◆ A versatile and interdisciplinary job and the possibility to pursue a PhD.
◆ An flexible working environment to support professional and academic further developments
◆ 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 the area of control, aerospace or wind energy engineering or an equivalent course of studies with extensive knowledge in control.
◆ Basic knowledge in wind energy and structural dynamics is beneficial.
Creativity, analytical skills, self-motivation, and the perseverance needed to pursue a PhD.
 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 a disability and with equal qualification will be given preference.

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**Kontakt**

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