

ForWind, the Center for Wind Energy Research of the Universities of Oldenburg, Bremen and Hannover, offers at the Institute of Physics at the Carl von Ossietzky University of Oldenburg within the group of energy meteorology a position for a

Research Assistant (E13 TV-L, 100%)

within a third party funded research project. With the means of large-eddy simulations (LES) of wind farm flows the successful applicant will work on the generation of a data base that shall be used for the further development and verification of simpler engineering methods for wind farm simulations. The funding of this project job starts on November 1st, 2017 and ends on September 30th, 2019. The position is not appropriate for part-time work.

Short description of the project: Within a collaborative project with academic partners, a certification body, and an operator of an offshore wind farm new methods for the operational control of an offshore wind farm with the objective of yield, load and grid optimization shall be developed. The development of new control strategies requires fast but nevertheless accurate methods for the simulation of the wind farm flow. Your first task in the project will be the validation of the wind farm modelling approach consisting of the LES model PALM coupled to the aeroelastic code FAST. For the validation data from two wind farms in the German Bight will be available. The validated modelling approach shall then be used for the generation of a data base with which simpler modelling approaches can be further developed and systematically validated. These simplified approaches shall support the development of the control strategies.

Condition for the employment is a master/diploma degree at a university in physics, meteorology, mathematics or engineering sciences. A PhD degree in one of these areas is an advantage, but not mandatory.

Requirements: Know-how in the area of large-eddy simulations and background knowledge of atmospheric simulations for wind energy are highly important. Good programming skills in Fortran are expected. Experiences in the use of the large-eddy simulation model PALM are of advantage. We expect very good communication skills, the capabilities for teamwork and good English language skills.

The Carl von Ossietzky Universität Oldenburg seeks to increase the participation of women in research. Women are explicitly encouraged to apply. According to § 21, Abs. 3 NHG female applications with equal qualifications will be preferred in the selection process. Handicapped persons with equal qualification will also be favored in the selection. Full-time positions can be also turned into part-time ones.

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In case of questions, please contact Dr. Gerald Steinfeld, Tel. 0441/798-5073, e-mail: gerald.steinfeld@uni-oldenburg.de or Dr. Detlev Heinemann, Tel. 0441/798-5070, e-mail: <mailto:detlev.heinemann@uni-oldenburg.de>.

Please send your application with the keyword OWP_LES including a motivation letter, CV and certificates in one file until June 5th, 2017 to ForWind – Center of Wind Energy Research, Mrs. Frauke Haunhorst, K pkersweg 70, 26129 Oldenburg, Germany. Alternatively, we are happy to receive your application by e-mail to frauke.haunhorst@forwind.de.