ForWind is the joint Center for Wind Energy Research of the Universities of Oldenburg, Hannover and Bremen. ForWind bundles a wide range of wind energy research activities in the areas of physics and engineering sciences and provides independent scientific co-operation in industry-oriented projects. Moreover, ForWind organizes education in wind energy, offers advanced training for future wind energy experts and hosts conferences and workshops in the area of wind energy.

We offer

Related to the investment in a computer cluster with more than 1000 cores that will be exclusively available for projects in wind energy research, ForWind is offering a position for a

Senior Scientist in numerical computing.

The working contract will be fixed term for 4 years. The offered job is not suitable for part-time working. The salary and social benefits will be according to Germany's public sector TV-L E13 pay scale. You will work at ForWind at the Carl von Ossietzky University of Oldenburg in a highly interdisciplinary and motivated team of physicists, meteorologists and engineers. We dedicate our research to wind energy to become one of the main energy sources in the future.

Your responsibilities

An innovative task in wind energy research is waiting for you. You will be responsible for the maintenance, enhancement and optimization of source codes that are used at ForWind to model hydrodynamic flows. Your area of responsibility includes assisting the users of the new computer cluster in porting, parallelizing and optimizing their meteorological and aerodynamic models and source codes. You will elaborate concepts for a highly-efficient and user-friendly operation of the new computer cluster and you will have the opportunity to realize these concepts on your own responsibility for the benefit of the users. In publicly funded third-party projects and scientific co-operations with industrial partners you have the opportunity to contribute your skills in numerical simulation and to participate in highly-applied research activities.

Your profile

Prerequisite for a successful application is that you have a degree in natural or engineering sciences, mathematics or computer sciences. You should have a deep knowledge in programming languages, such as FORTRAN and C/C++, as well as a wide experience in the numerical implementation of complex mathematical equations. The parallelization of programs (MPI/OpenMP) and the application of a computer cluster under Unix/Linux as well as the management of large amounts of data are familiar to you. Knowledge of the numerical simulation of hydrodynamic flows would be advantageous. We expect very good communication skills, the ability to work in a team and dedicated commitment, in order to grant ForWind's research groups an optimum benefit of the new computing facilities.

The Carl von Ossietzky University of Oldenburg seeks to increase the proportion of women in science. Therefore, women are strongly encouraged to apply for the offered position. According to § 21, paragraph 3 NHG, female applicants with equal qualifications as male applicants will be preferred. Disabled persons will be preferred, if they are equally qualified as other candidates.

Contact

For questions regarding this vacancy, please contact Dr. Lüder von Bremen, Tel.: 0441/36116735, e-mail: lueder.von.bremen@forwind.de or Prof. Dr. Joachim Peinke, Tel.: 0441/7983536, e-mail: peinke@uni-oldenburg.de.

The closing date is **March 31st, 2011**. Please send your application to ForWind – Center for Wind Energy Research, Geschäftsstelle, Marie-Curie-Straße 1, 26129 Oldenburg. Alternatively, we also look forward to receive your application by e-mail to frauke.haunhorst@forwind.de. Please quote the job reference Cluster_WM_Pos_3. Your application should include a covering letter, your CV, a list of references and publications as well as copies of relevant certificates. More information about ForWind can be found at our website www.forwind.de .