The Chair for Wind Power Drives at RWTH Aachen University navigates and organizes the interdisciplinary research activities at RWTH Aachen University in the area of wind turbine drive train systems. These research activities contain both fundamental scientific analyses and pre-competitive research and development projects.

Our Data Analytics department is a dynamic and international working group. Our tasks are diverse: implementation of machine learning techniques on data from field wind turbines and test benches with special focus on condition monitoring and IoT (Internet of Things); construction of data bases; conception of data management plans; collaboration with other universities; authoring of scientific publications (papers, posters, presentations); active intervention on internal test bench campaigns (sensor integration, signal processing) and other specific data analysis studies for internal and industry customers.

The team achieved a helpful and friendly atmosphere with a lot of feedback and coaching. We are looking forward to welcome you and think the future together.

Please send CV and cover letter to:
Clara Bernabéu-Rojo
R301
Tel. 0241 80-96 407
clara.bernabeu@cwd.rwth-aachen.de
www.cwd.rwth-aachen.de

Chair for Wind Power Drives
Prof. Dr. Georg Jacobs
Campus-Boulevard 61
52074 Aachen | GERMANY

Bachelor- / Master Thesis

Machine Learning & Wind Energy

Aufgaben/Tasks:
- Get familiar with specific wind energy, knowledge discovery in data bases, machine learning and big data analytics concepts.
- Achieve a deep understanding of machine learning algorithms.
- Build suitable normal-behavior data-based models.
- Perform a sensitivity analysis of the different modeling alternatives, using physical models and real data for benchmarking.

Voraussetzungen/Requirements:
- Fluent in English. Ability to work in an international team.
- Proactive, autonomous and reliable way of working.
- Experience with data analysis software and/or different programming languages is an advantage.

Wir bieten:
- Acquisition of highly industry-demanded skills.
- Access to specific data analytics software (Alteryx, IBM SPSS Modeler, MatLab, RStudio, Spark).
- Immediate start. Flexible working hours.
- HiWi vacancies are available for advanced students.
- Coaching, feedback and mentoring.