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HR Mgr./ Recruiter

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Title

Internship / working student in Wind Turbine Controls

## Internship / working student in Wind Turbine Controls

Job #: R3552311

**Business:** GE Renewable Energy  
**Component:** REN OFW-Engineering  
**Hiring Manager:** Jorn Klaas Gruber  
**Contact person:** Simone Schuler, [simone.schuler@ge.com](mailto:simone.schuler@ge.com)

**Location:** Munich / Barcelona  
**Relocation Expenses:** none  
**Openings:** 1

**Working hours:** 20-40 hours / week  
**Duration:** 6-12 months  
**Contract:** internship / working student

### ESSENTIAL RESPONSIBILITIES

#### Role Summary/Purpose

The scope of this position includes implementation and validation of advanced closed-loop control systems for offshore wind turbines.

#### Essential Responsibilities

The intern/student will work on the next generation of offshore wind turbine controllers. The focus will be on the implementation and validation of control algorithms in both the loads simulation environment as well as on the turbine PLC. This also includes tuning of the control algorithm, post-processing and analysis of simulation results as well as the execution of sensitivity studies.

### QUALIFICATIONS/REQUIREMENTS

- Proficient in Matlab / Simulink
- Good understanding of classical (transfer functions, frequency domain design, etc.) and basic knowledge in modern (state-space, optimal control, etc.) control theory
- Fluent in English (spoken and written)
- Enrolled in a study program at an accredited College or University (e.g. Control Engineering, Mechanical/Electrical or Aerospace engineering, Engineering Cybernetics, etc.).

### DESIRED CHARACTERISTICS

- Knowledge in wind turbine modelling and control
- Nonlinear and robust control theory
- Strong analytical approach to problem solving

#### About us

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