

INTERNSHIP OR BACHELOR/MASTER THESIS - GRID POWER MODELS (M/F/D)

Bachelor/Master thesis: Development of transient grid power system models for application in a real time Hardware-in-the-loop environment.

Thesis Description:

- Development of a proper real-time capable power grid model available for HiL simulation purposes
- Proof of concepts for integration of hardware components within a HiL setup
- Validation of developed models and hardware on a high performance computing DSPACE HiL rig

Your responsibilities:

- Work in close cooperation with the controls/ measurement/ Grid Code solutions team to develop and test differentiating solutions
- Support the team in requirement discussions, scope and concept definitions and feature design by involving all necessary experts
- Regular project status updates to technical experts
- Translate functional requirements into technical specifications and design solutions

Your Profile:

- Ongoing Bachelor' or Master studies in electrical engineering or related
- Educational experience in controls design (MATLAB, etc.) preferably in modelling of electrical equipment, electrical machines, power systems
- Basic understanding of power system stability and operations
- Passion about software development and a real team player
- Fluent in English, German is a plus
- A valid work permit for Austria is a prerequisite for this position (Non-EU citizens: please attach the work permit to the application)

The base pay is composed of the amount according to the Austrian collective agreement which is **EUR 2.195,46** gross per month (x 14)

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