Primetals Technologies Limited, a joint venture of Mitsubishi Heavy Industries and partners with headquarters in London (UK), employs 7,000 people worldwide and around 500 in Germany in Primetals Technologies Germany GmbH at the Erlangen (headquarters), Willstätt and Saarbrücken sites. As a leading partner for engineering, plant construction and lifecycle services in the metals industry, we focus on innovative and practicable solutions to optimally support our customers and increase their competitiveness. To guarantee sustainability and future orientation along the entire value chain of iron and steel production as well as state-of-the-art rolling mill solutions for nonferrous metals, the technical and economic know-how of our employees represents the key success factor of our company.

We are looking for people with enthusiasm and commitment who like to work independently and in an employee-oriented manner. Become part of our global team now and support us at our Erlangen site.

Master’s thesis: "Modeling and control of MMC based STATCOM for power factor correction and flicker reduction"

Job-ID: 22-014-E

Your new field of activity

- Modeling of the Modular Multilevel Converter (MMC) in MATLAB/SIMULINK software
- Selection of optimal STATCOM components like arm reactance, DC link capacitance etc.
- Design of the open- and closed-loop current regulators
- Validation of the developed model for power system symmetry and load compensation

Required skills

- You are currently successfully studying in the field of power electronics, electrical engineering or similar courses
- You are well acquainted with various pulse width modulation - and control techniques in power electronics
- Confident handling of MATLAB/SIMULINK, C++
- Distinct team spirit, structured and quality-conscious way of working complete your profile
- Very good knowledge of written and spoken German and English, other foreign languages are welcome

We offer

in our young company open ears for new ideas, the necessary creative freedom, innovative technologies as well as an exciting and dynamic working environment. In addition to above-average contract conditions, flexible and self-determined working hours are a matter of course for us.

How to get in touch with us

Please send your application (cover letter, curriculum vitae, references, relevant qualifications) by e-mail, quoting Job-ID: 22-014-E, to: Ms. Jessica Lennert, Germany.HR@primetals.com.

Primetals Technologies gives preference to severely disabled applicants (m/f/divers) and people with equal qualifications.

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