

Founded in India in 1995, Suzlon is today among the globally leading manufacturers of wind turbines. Our wind turbines stand for ecological energy generation and high economic efficiency.

Our corporate communication is open, transparent, respectful and characterised by trust and cooperativeness. Do you want to work flexibly and self-motivated and continue your personal development? If yes, Suzlon is the right employer for you!

Expert for Advanced Power Electronic Design Green Fuels (m/f/d) - Ref. 514

For the initiation, Pre-Design, Design, Specification, Product Development for Power-Electronic-Components related to WTG (Wind Turbine Generator) / WTG-Subsystems and Green-Fuel-Systems we are looking for an experienced Engineer for our location in Rostock. This includes appropriate controls and interfaces to other WTG-Elements, renewable plants and Green-Fuel-Systems.

Your tasks:

- Introduce requirements to WTG wrt. Power-Electronic System / Electro-Chemical-Systems to Suzlon
- Keep up-to-date with simulation methods and approaches
- Introduce advanced control algorithms wrt. Power-Electronic System / Electro-Chemical-Systems to Suzlon
- Power system analyses and trend analyses
- Power Electronic Development for Photovoltaic Systems, Energy Storage Solutions and Hydrolysis Systems

Specific tasks:

- Follow international Grid Code Development
- Follow Wind power branch / Renewable Energy / Green Fuel developments with Power-Electronic components and systems (for example WTG drive-train concepts, Electrolyser technologies etc.)
- Develop appropriate models, simulations and specifications as well as appropriate control routines
- Develop efficient test routines/test benches and validation/verification approaches for new power-electronic systems incl. software control routines
- Documentation of methods, approaches, solutions and results
- Saving of models and software as well as proper back-up
- Patent Monitoring and support for IP-related questions and studies
- Idea and Invention Delivery especially for Strategic Patent Applications in the field of Power Electronics
- Good (beyond basic) management and research project leader skills

Special knowledge:

- Power-Electronic software tools (please see above)
- WTG-Technology
- Electro-Chemical-Systems & Processes
- International Grid Codes and Electro-technical Standards and Guidelines
- International working environment (languages)
- Readiness for international business trips

Desired Profile:

- Master/Bachelor/Diploma (or PhD) of Electrical Engineering / advanced Electro-Chemical Engineering
- Very good knowledge of the English language verbal and in writing
- Good experience in
 - o Electrical Design; testing of electrical systems / mechatronic systems/electro-chemical systems & processes
 - o Specification of complex Control Systems
 - o Failure Analysis and Power-Electronic System-Understanding
 - o Software-Project-Management
 - o Experience with major simulation tools for steady state and dynamical analysis of electrical systems and networks (Matlab, SigSilent, PSCad, etc.)
- Able to work in an international team openly and with transparency
- Driving tasks independently and systematically

We offer demanding and interesting tasks in an innovative and dynamic surrounding with reasonable payment and flexible working times. If you are interested in the position please send your complete application package along with your salary expectations and earliest entry date quoting our reference number to: petra.zinta@suzlon.com