

Automation is your passion? We are looking for you - Join our Team!

We are looking for **Software Engineer (f/m/d) for HVDC Control and Protection**

Established in 2005, Siemens Energy Power Control GmbH has been ever since a reliable partner in several areas dealing with automation systems. Further on, we support our customers in the Siemens Energy Consortium in all areas concerning project execution and software development. Located in Langen and Nürnberg our company is characterized for having a flat hierarchy as well as a young, dynamic, and international team, all these factors ensure the success of our customers and business partners.

Location: Nürnberg or Langen (Hessen)

Occupation: Fulltime

Key Responsibilities

- Responsibility for the preparation of quotations as well as for the engineering phase, performance and customer acceptance tests. Support during the commissioning phase from Erlangen up to handover to the customer worldwide
- Development of DC protection concepts of self-guided multilevel converters with half-bridge and full-bridge modules for different applications such as symmetrical monopole, bipole, offshore connections or multi-terminal systems
- Performance of protection coordination studies of HVDC systems using the simulation tool PSCAD/EMTDC, incl. determination of DC protection settings and preparation of study report
- Programming the software of DC protection and Measurement system in MATLAB/SIMULINK and CFC on the SIMATIC TDC multiprocessor automation system and PLUSCONTROL platform
- Functional and Performance testing: Model-Based-Testing (MBT) in SIMULINK and Hardware in the Loop (HiL) with Real-Time Simulation Systems (RTDS)
- Customer training and acceptance tests as well as submission of lessons learned for improvement as a central contact person for your project as a protection engineer
- Support in research and development topics for HVDC projects and first point of contact for troubleshooting and after sales

Yor Profile

- University degree in electrical engineering or a comparable field of study; ideally a doctorate in the field of protection technology
- 3+ years of professional experience in the areas of control and protection, especially in the development of DC protection concepts for HVDC, FACTS or large-scale converter applications
- Experience in software engineering and testing of SRS systems (open/closed loop controls and system dynamics) and very good knowledge of MATLAB/SIMULINK, ideally in connection with real-time and embedded software
- Solid knowledge in modelling and simulation studies with the industrial power system program PSCAD/EMTDC
- Ideally knowledge of Git for version control, IEC61850 and data modelling as well as Simatic Manager and CFC
- German and English fluent in spoken and written
- Strong communication and teamwork skills for result-oriented and creative development of our projects, focus on high quality execution of our solutions

We offer

- A Future oriented working environment with growth perspectives
- Outstanding development possibilities
- Opportunity to contribute to the energy transition in a highly motivated and international project teams in HVDC projects
- Open feedback and failure culture
- Collaboration with a wide variety of customers, such as developers or transmission system operators, in different countries
- Payment according to Union Frame contracts

Interested!?! Submit your application in digital form to following Address:

sepc-application@siemens-energy.com .

If you prefer, you can also submit your printed application to our HR Department in Langen.

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