



Are you looking for a new challenge?

Sécheron is a recognized market leader in Traction Power Solutions for railway. In support of the global growth of our substation business we are seeking a

POWER CONVERTER ENGINEER

Role Summary/Purpose:

This role aims to support the development of energy recovery converters within the Substations business unit. The purpose of the unit is to provide our customers with traction fixed installation solutions that comply with the highest safety and quality standards. This includes train braking energy recovery systems that increase the overall efficiency of the system.

Your mission:

- Analysis of customer specifications
- Definition and dimensioning of grid connected AC/DC converters for traction fixed installations
- Thermal losses calculation and dimensioning of components
- Modelling of Voltage Source and Line Commutated Converters
- Protection system dimensioning
- DC & AC Harmonics calculation and filter design
- Verification of compliance with specifications and standards
- Prototype validation and testing

Your profile:

- Master's Degree or above in Electrical Engineering or related field with a minimum of 5 years of experience in Power Electronics
- Understanding of functional characteristics of Power Electronics and strong knowledge of control and protection for converters
- Extensive knowledge in Voltage source Converters (VSC) for traction, solar, wind or HVDC applications. Knowledge of Line Commutation Converters (LCC) is a plus.
- Knowledge of simulation tools like PSCAD, MATLAB/SIMULINK, PLECS, SABER etc.
- Appreciation of Embedded systems, Controls and Software so as to be able to work with these disciplines for the appropriate allocation of tasks/changes
- A positive attitude, initiative, proactiveness and an enthusiasm and passion for power electronics and traction engineering
- Demonstrable success in achieving and exceeding customer milestones
- Good problem solving and solution building skills
- Good communication skills to team, peers, and management

Your success in our globally operating company will be supported by an ambitious international team, excellent working conditions as well as a competitive compensation and benefits package.

Are you attracted by this opportunity? Please send your application to:

Sécheron SA

HR department

Rue du Pré-Bouvier 25 - 1242 Satigny - Geneva - Switzerland

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Let your talent join our
ambitions to shape our
common future !