
Control Software Engineer R&D – Power Electronics/ Traction Applications (80%-100%)

Basic Info

Location Turgi, Aargau, Switzerland

Job type Full-Time

Contract Regular/Permanent

Join ABB and work in a team that is dedicated to creating a future where innovative digital technologies allow greater access to cleaner energy.

ABB Traction is a pioneering technology leader, driving innovation for rail and e-mobility. We contribute to make transportation more sustainable, while saving energy every day. In our development center in Turgi, we develop powerful and reliable power electronics converters and traction batteries which are used in electromobility and in the rolling stock industry.

We are looking for a passionate Control Software R&D Engineer eager to execute a SW project from the requirements to the first ride of a vehicle, to strengthen our motivated multidisciplinary R&D team in Turgi. If you show great interest in control systems, power electronics and traction applications, and look forward to making a train move, this is your opportunity to make a remarkable impact.

Your responsibilities

- Design reliable real-time control software for our product range in the area of traction converters and energy storage systems used in the rail industry
- Oversee all stages of R&D, ranging from feasibility studies and simulations to implementation and testing

- Develop and test control software for traction converters used in the rail industry
- Carry out final commissioning on board of locomotives, busses, and train sets
- Provide professional technical support to the product management and to internal and external customers

Your background

- Degree in Electrical Engineering (Master's or PhD)
- Passion for dynamic control theory as well as experience in closed-loop control systems
- Solid understanding of power electronics and knowledge of motor physics or battery systems
- High level of proficiency in MATLAB/Simulink, ideally complemented by experience with real-time targets and embedded software
- Specialist expertise in software development processes desirable
- Well-structured approach with the ability to work in close cooperation with others
- Fluent command of English, both written and spoken, good knowledge in German or willingness to learn

More about us

Bring your very own sense of pride and purpose as you help us drive forward the Fourth Industrial Revolution – creating a sustainable future for our planet, and your career. Join ABB and harness the power of our diverse global network, as you collaborate with and learn from our world-class teams. Above all, challenge yourself every day. Let's write the future, together.

Interested in joining our team? If so, we look forward to receiving your full application (motivation letter, CV, references) only via our online careers tool. A better world begins with you at www.abb.com/careers

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Reference Number

CH75227365_E1

Publication date

2020-08-03