



## Projects in Software Technology for the Power and Automation Domain

Internship/Master Thesis

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. ABB operates in more than 100 countries and employs about 140,000 people, whereof 7,000 in Switzerland.

ABB Corporate Research, in close collaboration with ABB business areas, is developing the foundations for the next generation of ABB products. In Switzerland, ABB Corporate Research located in the proximity of Zurich, employs more than 200 scientists from 35 countries with expertise in power electronics, automation and power technologies for manufacturing, consumer and process industries as well as utilities.

Our Software Technology group performs cutting-edge research in real-time and embedded systems, security, remote operations, and intelligent distributed systems. We are offering several internship positions and master thesis projects. Our internship positions are competitively paid and provide the opportunity of working on real-world projects in an international team of innovative scientists.

**Your tasks:** programming and documenting software applications for the power and automation

domain • literature research • conceptual work and original research • independent execution of challenging project tasks under competent supervision.

**The requirements:** currently pursuing a degree in computer science or a similar subject with completion of at least 4 semesters; official enrollment is essential • familiarity with relevant software development and software engineering practices • profound knowledge of programming languages such as Java, C++, C#, R, Python, Scala a plus • proficiency in English • know-how in the development of real-time and embedded systems, security technologies, big data technologies, machine learning, operating systems (e.g. Windows, Linux, VxWorks or QNX), electrical engineering, control theory, multi- and many-core systems, parallel software design, robotics, and/or database technologies an asset • willingness to learn • motivation to try out cutting-edge technology developments • ability to think conceptually and express ideas clearly and convincingly.

**Your contact:**

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