



Cities that consume 30% less energy?

Certainly.

## Senior Researcher (m/f) Power Electronic Converters

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 124,000 people, whereof 6,200 in Switzerland.

ABB Corporate Research, in close collaboration with varied 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 170 scientists from over 30 countries with expertise in automation and power technologies for manufacturing, consumer and process industries as well as power utilities.

We are looking for an R&D Engineer (m/f) to support our Power Electronics department. As part of ABB Corporate Research, you will work in dynamic, motivating, and creative teams with a wide range of experience and competence. Your opportunities for career development will be excellent, nationally and internationally.

**Your tasks:** perform strategic research on power electronic converters • devise new ideas targeted

at power electronic systems with strong focus on multilevel platforms • develop new power electronic solutions for renewables (photovoltaics, wind) and motor drives • improve the efficiency, performance, and modularity of existing solutions • contribute to the prototyping and testing of converters • provide advice to projects for power semiconductor applications of IGCTs and IGBTs • take charge of project planning • coach junior power electronics researchers

**The requirements:** PhD with at least five years' experience or MSc with at least ten years' experience • in-depth knowledge of converter design, control, and modulation • ability to solve problems systematically • high curiosity and broad technical interest • creativity and initiative • team player with strong communication and interpersonal skills • fluency in English

**Your contact:**

Zorica Marinkovic, Recruiting Consultant

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