



Cities that consume 30% less energy?

Certainly.

R&D Scientist (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 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 30 countries with expertise in automation and power technologies for manufacturing, consumer and process industries as well as power utilities.

Our Power Electronics Systems and Applications group within the Automation Devices department is looking for an R&D Scientist (m/f). As a part of ABB Corporate Research, you will work in dynamic, motivating, and creative teams with people who share a wide range of experience and competence. Your opportunities for career development will be excellent, both nationally and internationally.

Your tasks: devise new ideas targeted at power electronic systems with strong focus on multilevel platforms in core applications (e.g. drives, traction, renewable energy, STATCOM), improving efficiency,

performance, and modularity • cooperate with semiconductors, thermal, and mechanical design teams to optimize the performance of power electronic converters • contribute to the prototyping, assembling, and testing of converters • gain expertise in power semiconductor characterization (IGCTs, IGBTs, etc.) • take charge of project planning according to budget and schedule

The requirements: PhD in electrical engineering or a related field • in-depth knowledge of converter design, control, and modulation • good experience in lab setup and prototyping • strong familiarity with simulation tools like MATLAB/Simulink, Simplorer, and/or PSpice • experience in medium-voltage applications advantageous • highly motivated, proactive, and open-minded team player able to prosper in a multicultural environment • excellent communication skills • strong customer orientation

Your contact:

Zorica Marinkovic, Recruiting Consultant

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