



Cities that consume 30% less energy?

Certainly.

R&D Scientist (m/f) Thermal Management

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. Located in the proximity of Zurich, ABB Corporate Research Switzerland 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.

Our Power Electronics Integration 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: perform applied research in the field of power electronics thermal management and mechanical integration • create new thermal

management concepts and develop advanced cooling technologies in collaboration with your colleagues specialized in power electronics, mechanical engineering, materials science, and other fields

- investigate system level effects and benefits of your proposed concepts
- use numerical and experimental techniques to analyze and validate your findings
- communicate your results to internal and external project stakeholders

The requirements: PhD in mechanical engineering, physics, or a related discipline • expertise in thermal engineering • familiarity with measurement techniques and experimental set-ups • experience in thermal FE/CFD simulations • interest in electrical engineering of power electronics components and systems • broad technical interest • fluency in English • good organizational skills • action-oriented and analytical team player • strong communication and interpersonal skills

Your contact:

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