



Cities that consume 30% less energy?

Certainly.

R&D Scientist (m/f) Power Semiconductors

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 120,000 people, whereof 6,400 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 25 countries with expertise in automation and power technologies for manufacturing, consumer and process industries as well as power utilities.

Our Power Semiconductors 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. As a Power Semiconductor Researcher, you will, among other things, run technology pre-studies to provide ABB business units with information for decision-making. You will also be developing new technical solutions for future semiconductor products. Your opportunities for career development will be excellent, both nationally and internationally.

Your tasks: assume responsibility in the research and development of advanced power semiconductors from lab activities to simulations and modelling • process and characterize state-of-the-art devices in high and medium voltage levels

(>600V) • assume project management responsibilities within a short period of time • take personal ownership for assignments including timely feedback and proactive actions • initiate and drive cooperation with academic partners and semiconductor manufacturers

The requirements: PhD degree in applied physics or electrical engineering or Master's degree with solid working experience in the semiconductor industry • know-how in power semiconductor processing and characterization • keen interest, ability and enthusiasm in R&D • experience in simulation of semiconductor devices an advantage • fluent English, both written and spoken; knowledge of German beneficial • strong communication skills • action-oriented, initiative and analytical team player • self-determined and independent personality

Your contact:

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