Creative Electrical Machine Specialist with strong drive

The challenge: Do you want to keep research at the scientific forefront in an international work environment – with great opportunities for your personal development? You can do this by, among other things, establishing networks with academia and your own simulation work. In your work, you will collaborate closely with various ABB business units to reach common goals. You will perform research activities towards the electrical machine technology, with specific focuses into multi-physics phenomena. These include thermal, mechanical, structure and electro-magnetic designs. It will be your task to first understand the needs and areas within existing products – and then to improve and optimize their performance. You will naturally develop a solid theoretical understanding of thermal-mechanical stress that can be added as design matrices in addition to electro-magnetic considerations. You will also be responsible for leading and executing projects according to given objectives, budget and schedule. And you will document and communicate the results from your work proficiently within ABB.

The requirements: To apply, you need to hold a PhD in Electrical Engineering or advanced graduate degree with industrial experience. You must also be experienced in performing laboratory experimental works and multi-physics numerical simulations, as well as real time co-simulations. Familiarity with software tools, such as Maxwell, FLUX, Simplorer, Fluent, COMSOL and Matlab is another prerequisite – as is experience from project management. You need to be proficient in English, both spoken and written, as this will be your working language. Knowledge of Swedish is naturally an advantageous. As you will present results from your simulations, you need effective communication and presentation skills. Any relevant industry or advanced R&D experience is, of course, qualifying. Your experience provides your natural analytical mind with the ability to think strategically regarding technological R&D, specifically in the field of electrical machines. You are structured and creative with a strong inner drive. Further, you have the ability to work independently as well as in a team environment to reach set goals.

The department of Power Technologies at ABB Corporate Research in Västerås is responsible for ABB's strategic research and development worldwide in the areas of Power Systems, Power Products and Electrical Machines. The department is a highly international environment with 130 researchers and engineers from all over the world working at the forefront of research and development in the field of power technology. Group of Electrical Machines and Motion Control at ABB Corporate Research in Västerås provides the core technology development activities within ABB in areas of electrical machines and generators. The group is working in close partnership with all business unit partners from Discrete Automation and Motion division.

More information: Robert Chin, Recruiting Manager, +46-21-32 31 63, will answer your questions on the position. Any other questions can be directed to recruitment consultant Eva Björklund, +46-21-32 53 47.

Welcome to apply by submitting a cover letter, resume and other supporting materials to Robert Chin, the Group Manager of Electrical Machines and Motion Control, ABB Corporate Research Centre in Västerås.
Email: Robert.chin@se.abb.com

ABB (www.abb.com) is a global leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 117,000 people.