



R&D Intern in EMC 80-100% (f/m/d)

At Hitachi Energy our purpose is advancing a sustainable energy future for all. We bring power to our homes, schools, hospitals and factories. Join us and work with fantastic people, while learning and developing yourself on projects that have a real impact to our communities and society. Bring your passion, bring your energy, and be part of a global team that appreciates a simple truth: Diversity + Collaboration = Great Innovation

Hitachi Energy is a pioneering technology leader that is helping to increase access to affordable, reliable, sustainable and modern energy for all. We help to power your home, keep the factories running, and our hospitals and schools open. Come as you are and prepare to get better as you learn from others. Bring your passion, bring your energy, and plug into a team that appreciates a simple truth: Diversity + Collaboration = Great Innovation

Hitachi Energy Research, in close collaboration with business areas, is developing foundations for the next generation of Power Grids products. Located in the proximity of Zurich, the research centre employs approximately 60 scientists from all over the world with cross-disciplinary expertise. In the Electromechanics Integration Group we perform cutting-edge research, and look at various aspects of making the power system stronger, smarter and greener. We focus on the challenges and opportunities in enhancing grid flexibility and facilitating renewable energy proliferation. In this context, we offer an internship position which provides the opportunity of working on real-world projects in an international team of research scientists.

Your responsibilities

- Design and build test-setups to characterize shielding properties of electromagnetic components,
- Derive macro models for various components based on experiments,
- Develop analytical and numerical simulation models for validation and system-level investigations,
- Collaborate with experts in a multi-disciplinary research team,
- Present progress updates and results, and write reports,
- Contribute to scientific publications.

Your background

Currently pursuing an M.S. degree in electrical engineering, physics, applied mathematics, or a similar subject – official enrolment is essential,

Basic understanding and interest in electromagnetic theory, transmission line theory, and electromagnetic compatibility,
Interest in laboratory work and hardware development,
Experience in programming, for example Matlab, Python, or C++,
Optional: experience with EM simulations tools, such as 3D full-wave solvers or circuit simulators,
Written and oral proficiency in English,
Enthusiastic, motivated and curious with good organizational skills and team spirit,
Availability for six months, with the possibility of further extension.

More about us

Hitachi Energy is a global technology leader that is advancing a sustainable energy future for all. We serve customers in the utility, industry and infrastructure sectors with innovative solutions and services across the value chain. Together with customers and partners, we pioneer technologies and enable the digital transformation required to accelerate the energy transition towards a carbon-neutral future. We are advancing the world's energy system to become more sustainable, flexible and secure whilst balancing social, environmental and economic value. Hitachi Energy has a proven track record and unparalleled installed base in more than 140 countries. Headquartered in Switzerland, we employ around 40,000 people in 90 countries and generate business volumes of approximately \$10 billion USD. www.hitachienergy.com

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