



Master project on methods for steady state analysis of power grids 80-100 % (f/m/d)

Hitachi ABB Power Grids 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**

In the Systems & Automation Group of Power Grids Research in Baden-Dättwil we perform cutting-edge research and look at various aspects of seamlessly integrating variable renewable resources such as wind and solar. We focus on the challenges and opportunities in the future scenarios in order to enhance grid flexibility and facilitate renewable energy proliferation. In this context, we offer a master student position which provides the opportunity of working on an interesting project in an international team of research scientists. The duration of the master project is 6 months.

Your responsibilities

- Perform literature research
- Model and analyze steady-state operation of grids with traditional and emerging technologies
- Develop new approaches for power flow analysis using state-of-the-art techniques
- Benchmark the developed approaches against modern open-source tools
- Self-driven execution of challenging tasks under stimulating supervision

Your background

- Currently pursuing an M.S. degree in electrical engineering, control engineering, applied mathematics or a similar subject – official enrollment is essential
- Background in one of the following topics: 1) steady-state analysis and modeling of power grids (e.g. power flow, optimal power flow, state estimation) and 2) numerical methods and mathematical optimization
- Profound knowledge of and experience in Matlab and/or Python; familiarity with C/C++ is an advantage
- Written and oral proficiency in English

More about us

Hitachi ABB Power Grids is a global technology leader with a combined heritage of almost 250 years, employing around 36,000 people in 90 countries. Headquartered in Switzerland, the business serves utility, industry and infrastructure customers across the value chain, and emerging areas like sustainable mobility, smart cities, energy storage and data centres. With a proven track record, global footprint and unparalleled installed base, Hitachi ABB Power Grids balances social, environmental and economic values, and is committed to powering good for a sustainable energy future, with pioneering and digital technologies, as the partner of choice for enabling a stronger, smarter and greener grid.

www.hitachiabb-powergrids.com

Interested in joining our team? If so, we look forward to receiving your full application (motivation letter, CV, references) only via our online careers tool.

Hitachi ABB Power Grids Switzerland

Richard Adu

Talent Acquisition

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