



R&D Intern for Grid & Climate Resilience (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.

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

- Develop and document software tools in the context of grid and climate resilience
- Data sourcing, handling & analysis to describe weather events, climate trends and power system information
- Apply state-of-the-art data science and machine learning techniques to gain insight into grid resilience in a changing climate,
- 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 computer science, electrical engineering, applied mathematics, energy science/engineering or a similar subject – official enrolment is essential

Profound knowledge of and experience in Python (preferred) and/or Matlab

Experience with using data science and machine learning tools

Experience with any of the following is a plus (but not mandatory): power system modelling, weather/climate data modelling and/or analysis, geographical information systems

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 38,000 people in 90 countries and generate business volumes of approximately \$10 billion USD. www.hitachienergy.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 Energy Switzerland Ltd.

Sonia Canelada Granizo

Talent Acquisition

Location	Baden-Dättwil,Aargau,Switzerland
Business Unit	Business Function Technology
Publication Start Date	31.08.2022
Job Function	Research and Development
Publication ID	CH53851145_I1