HITACHI Inspire the Next



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

Do you want to carry out arc and fluid-dynamic simulations to evaluate the performances of a High Voltage Circuit Breaker (HVCB) during operation under transient electrical loads? Would you like to be involved in the creating input files or meshes needed for the running the simulation?

Our flexible work practices help you optimize personal and business performance while creating an environment where all employees can develop their skills and grow!

You will receive dedicated assistance and support from the Hitachi-ABB engineers and scientists and will be involved in all stages of the numerical simulations: from meshing, the setting-up of the computations and the post-processing of the results.

The internship duration is for a minimum of 6-months, preferably 12-months.

Your responsibilities

Implementation of the HVCB CAD model in the dedicated thermo-fluid dynamic software The study will be carried out with the software FLUENT, with an in-house the arc simulations libraries Meshing of the HVCB model Data post-processing, analysis, and evaluation of the results Propose improvements to the simulated case in collaboration with the development team Plan a dedicated validation campaign

Your background

Bachelor or Master in Mechanical Engineering or a related field Background in fluid-dynamics and thermal management CAD knowledge (Creo is a plus) CFD background (ANSYS FLUENT)

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Meshing knowledge (ICEM, GAMBIT preferably) Proficiency in programming (ideally Python) Fluency in written and spoken English Ability to work in a team, as well as willingness to handle responsibilities independently

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

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