

We are looking for a DC grid engineer who will help manage our photovoltaics power production and storage

MSc thesis – Delft
Starting as soon as possible

Please apply for this job if you want to:

- Make a difference by changing the perspective.
- Be part of the 30 most promising tech pioneers worldwide and most promising start-ups in the Netherlands (according to World Economic Forum).
- Work for a company who recently secured EUR 1.5 million of external funding and a EUR 2 million EU subsidy to help fuel our growth.
- Join an enthusiastic, ambitious team full of fun and creativity.
- Enjoy a free daily lunch and weekly bootcamp.
- Work in the coolest building of Delft with a rooftop terrace and glass pavilion.

The company

At PHYSEE we have a thorough belief in sustainable innovation without compromise. Innovation which brings added value for our customers, without compromising on aesthetics, technology or costs. Holding on to this belief has led us to design and produce the world's first fully transparent, energy and data generating windows; PowerWindow and SmartWindow.

Since we focus on building a better future we are determined to expand our young and ambitious team, following the principles of our company culture, which is described as '*a place where free-spirits can flourish*' by one of our valued PHYSEEnairs.

The job

We are looking for a MSc student who can help develop a sustainable DC nano-grid, that manages the power produced by our PV modules integrated in the façade of a building. Specifically, focusing on optimising power production, storing excess energy and bidirectional transport within the DC nano-grid. You will be given the opportunity to model, design, develop, test and take the product all the way up-to-production.

Your mission

- Research of state-of-the-art of DC nano grids and energy management
- Modelling of different loads scenarios based on our client building projects
- Definition and implementation of *Balance of System* recommendation tool
- Research DC/DC bi-directional inverter technology
- PV system topology analysis
- Build and test in our testing facility *LivingLab*

Requirements and skills

- You've completed a BSc degree in Electrical-, Mechanical-, Embedded Engineering or related fields
- You are studying (MSc) Electrical Sustainable Energy, DC systems, Sustainable Energy Engineering or related fields
- Modeling experience in Matlab/Python or similar
- You have an interest for smart DC-grids in sustainable building application
- Excellent spoken and written English
- Proven self-starter: you have the ability to take initiative as well as to work in a team

Do you think you're capable for the job and are you the perfect team member? Let us know and send an email to Frédérique at jobs@physee.eu.

We are looking forward to seeing you!