

We are looking for an MPPT developer who will help optimize power production

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 us with developing electronic components which are integrated in our photovoltaic modules. Specifically with the aim of optimizing power production and monitoring the performances as function of external environmental conditions. You will be given the opportunity to conceptualize, design, develop, test and take the product all the way up-to-prototyping/production. Sounds exciting? Then please read below job mission and reach out to us!

Your mission

- Research of state-of-the-art MPPT algorithms
- Definition and implementation of a new MPPT algorithm in a low power consumption micro-controller
- Communication of data wireless/Power Line Communication
- Ambient sensors (illumination, temperature..) can also be integrated to allow real-time monitoring
- System topology decision
- Simulation and optimization of the concept
- Build and test a prototype

Requirements and skills

- You've completed a BSc degree in Mechanical, Electrical Engineering, Computer Science or related fields
- You are studying (MSc) Electrical Engineering, Embedded Systems, System and Control or related fields
- Knowledge of C / C++ / Python or Matlab
- You have an interest in PCB design and are committed in making a clean, organized, modular script
- 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!