

We are looking for a Coating Research Intern who will develop phosphor-embedded coatings in a solution-based approach.

Internship – Delft (minimum 4 months)
(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 international, collaborative 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 committed to expand our young and ambitious team, following the principles of our company culture, which has been described as '*a place where free-spirits can flourish*' by one of our valued PHYSEEnairs.

The job

In the current phosphor track from PHYSEE, phosphor-embedded coating is a necessary step towards realizing a phosphor-enabled PowerWindow+. We look for someone who can strengthen our team in the area of particle dispersion and chemical solution handling to functionalize the luminescent phosphors. The goal will be to broaden and deepen our knowledge in coating deposition, developing a PowerWindow+ coating by a solution-based approach. The versatility of a solution-based deposition also means the intern will look into transferable knowledge and skills to educate the team and external parties.

As a coating research intern, you will research and develop related technologies in industrial application for a solution-based coating. You will perform trials in labs to verify different scaling up opportunities. Characterizing and analyzing the solution and coatings will also be part of your tasks to iterate coating designs and deposition parameters. Along with our research engineer, you may also participate in external collaborations to advance the technologies in an industrial setting.

Are you eager to apply your knowledge in chemical solution handling to deposit a functional film for electricity-generating window of the future? Then please read the mission below and reach out to us!

Your mission

- Develop solution-based (phosphor-embedded) coatings as LSCs.
- Develop suitable characterization methods for precursors and the solution-based coatings.
- Use optical and electrical characterizations to optimize the deposition method.
- Motivate our team by having a positive and creative mindset.

Your profile

- Approaching the end of a Bachelor's or Master's degree in a technical oriented education, such as (but not limited to) material science, chemical engineering, chemistry.
- Experience with chemical solution handling.
- Understand (or eager to learn) wet chemistry, luminescence, and optical characterization.
- Experience with MATLAB or Python for data processing is a plus.
- Experience with coating method is a plus.
- Excellent spoken and written English.

If this sounds like you and you think you are the perfect team member for PHYSEE? Let us know by sending an email to Frédérique at jobs@physee.eu.

Looking forward to seeing you!