

Photonis Netherlands B.V. is looking for a MSc student with a strong physics background, affinity with characterisation work, optics, semiconductor physics, or material science.

## INTERNSHIP - OPEN PROPOSAL

### Context

In the R&D team we are responsible for the development of detectors for scientific application. We are continuously looking for MSc students with a strong Physics background to help us in the development of new products, in the characterization of our devices or in the preparation of experiments.

We are putting together internship projects based on request from running project portfolio or the need in fundamental depth on specific topics, and based on the candidate profile.

As our devices are state-of-the-art in single photon detection and imaging, our R&D lab is equipped with advanced set ups allowing to explore the limits of the technology; measuring characteristics such as picosecond timing resolution, GHz counting ability, extreme low dark rate, high imaging resolution, etc.

On the material science side we are continuously searching for specific characterization methods or explore new materials.

### The Job

The subject of the internship can be the implementation of characterization techniques in the lab to study advanced single-photon counting and imaging detectors/ systems at different conditions and for various applications. To understand better how detector work and how to improve its properties, some of the modelling tools are available, e.g. Simion software to calculate electron and ion trajectories and Zemax for optical calculations. Setup and experiment automatization including programming (labview) can be also requested. Other options could be technology survey and theoretical modelling. We combine most of the time theory and hands-on tasks.

### Our ideal candidate:

- Master's student with a strong physics background
- Understanding of single photon counting and imaging detectors
- Affinity with modelling software, spectrometry and experimental work
- Team player
- Proficiency in written and spoken English is essential, while knowledge of Dutch is advantageous.

### What we're offering:

- Internship of 4-9 months, start date any time
- Location Photonis Roden
- A monthly compensation of € 650,-

### Application Process:

Interested candidates should submit their CV and cover letter to HRM at PHOTONIS: [hrm@exosens.com](mailto:hrm@exosens.com).

Photonis Netherlands B.V. is a key player within the Exosens group and stands as the European leader in cutting-edge electro-optical technologies catering to defense and industrial applications.

Join Photonis and contribute to ground-breaking research in a stimulating and innovative environment!

*By applying for this position, you agree that we will provide your personal data to our internal stakeholders. We may consult your LinkedIn account. A Certificate of Good Conduct (VOG) will be requested upon employment.*

