

PhD Position

on nanophotonics with layered semiconductors

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TU/e is an international university with a high-tech focus. It offers state-of-the-art research facilities at the heart of one of Europe's foremost technological hubs.

The Photonics and Semiconductor Nanophysics (PSN) group in the Department of Applied Physics seeks a talented and motivated researcher to advance the frontiers of nanophotonics, quantum optics, and two-dimensional semiconductors.

The project will exploit the degrees of freedom of electrons in layered semiconductors (spin, valley, and layer) for nanophotonics and optoelectronics. Through a combination of optical microscopy and spectroscopy, nanofabrication, and simulations, we will obtain a refined understanding of the properties of excitons in materials like MoS₂ in order to design novel proof-of-concept devices. This work will be carried out in the PSN group and supervised by Dr. Alberto G. Curto (more info: A.G.Curto@TUE.nl).

Candidates should have (or be enrolled in) a MSc degree in Physics, Electrical Engineering or related areas, with experience in Optics, Semiconductors, or Nanotechnology.

Submit your application via TU/e website including: CV, brief motivation letter (max. 1 page), BSc or MSc thesis (if available), list of courses and grades, and contact information of at least one reference.

