

PhD student in quantum photonic element development

Job Information

Organisation/Company

Institute of Solid State Physics, University of Latvia

Research Field

Physics » Optics

Researcher Profile

First Stage Researcher (R1)

Country

Latvia

Application Deadline

08 May 2023

Type of Contract

Temporary

Job Status

Full-time

Offer Starting Date

1 Sep 2023

Offer Description

The Latvian Quantum initiative (LQI) is a partnership between leading academic institutions in Latvia recognized for research excellence in specific domains of quantum technologies. The initiative has been granted dedicated funding for development of research potential in quantum technologies, leveraging synergies between participating labs.

Within this initiative, we are seeking to appoint PhD student who will work on development of integrated quantum photonics with focus on single-photon sources and frequency conversion in Institute of Solid State Physics, University of Latvia <https://www.cfi.lu.lv/en/>. This includes device designing, fabricating them using standard lithography workflows and device testing.

The future holder of this position will be working on designing and fabrication of integrated quantum photonic devices based on polymer-hybrid photonic platform. Institute of Solid State Physics hosts a large cleanroom facility with all the necessary equipment for optical and electron-beam lithography and experienced staff that can assist with accustoming to lithography workflows <https://www.cfi.lu.lv/en/research/nanotechnology-center/>.

The position holder should have interest in quantum photonics and integrated photonics. Any prior experience in lithography methods, fabrication of micro and nano optical structures and photonic device characterization will be viewed as beneficial.

Requirements

Research Field

Physics » Optics

Education Level

Master's degree or equivalent

Skills/Qualifications

- Record of relevant research regarding integrated photonics.
- Experience in publication preparation.
- Any experience with lithography methods and photonic device fabrication will be viewed as beneficial.

Responsibilities

- Publication of scientific papers.
- Participation in project proposal writing.
- Fabrication of quantum photonics elements by lithography methods.

Additional Information

Benefits

Competitive salary *starting from* 2000 EUR/month and social benefits.

Work Location / Contact

Company/Institute

Institute of Solid State Physics, University of Latvia

Country

Latvia

City

Riga

Postal Code

LV-1063

Street

Kengaraga iela 8

Where to apply

E-mail

quantumlatvia@lu.lv

Please include reference "PhD position - photonics" in your application e-mail.