

Post-doctoral researcher in the field of laser radiation - matter (atoms and color centers in diamond crystals) interaction and/or quantum magnetic field sensors

Job Information

Organisation/Company

University of Latvia, Laser Centre

Research Field

Physics

Researcher Profile

Recognised Researcher (R2)

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 a post-doctoral researcher who will be part of the research efforts to develop quantum sensors for magnetic field measurement. The researcher will be joining the research team of the Laser Centre of the University of Latvia currently researching alkali atom and Nitrogen - vacancy centers in diamond interaction with laser radiation in presence of external fields and developing quantum field sensors based on these quantum objects. These efforts are funded by Latvian Quantum initiative, Latvian Science council, NATO Science for Peace and Security program and European Defense Fund.

Requirements

Research Field

Physics

Education Level

PhD or equivalent

Skills/Qualifications

The position holder should have experience in experimental or/and theoretical research in laser radiation interaction with atoms and/or point-like defects in crystals.

Successful candidate must possess:

- PhD or equivalent in Experimental or Computational Physics;
- Record of relevant research regarding laser radiation - matter interaction and/or quantum sensors;
- Ability to lead and contribute to writing and publishing research papers, particularly for refereed journals;
- Experience in project preparation and submission will be considered as advantage.

Application requirements:

- Curriculum Vitae including teaching competence, list of the most relevant published works and details of research projects in which candidate has participated;
- Fulfilling the conditions specified in the European Framework for Research Careers for Established researcher at the level of R2 or R3.

Responsibilities:

- To lead parts of the existing research projects at the Laser Centre of the University of Latvia;
- Be part of preparation of new project applications;
- Publication of the results of the research in refereed journals.

Additional Information

Benefits

- Opportunity to work in the modern, well equipped laboratories of the Laser Centre of the University of Latvia;
- Opportunity to be part of friendly team with many young and strongly motivated researchers;
- Competitive salary *starting from* 3000 EUR/month and social benefits.

Work Location

Number of offers available

1

Company/Institute

University of Latvia, Laser Centre

Country

Latvia

State/Province

Riga

Postal Code

LV-1004

Street

Jelgavas iela 3

Where to apply

E-mail

quantumlatvia@lu.lv

Please include reference "Post-doctoral researcher – Laser Centre" in your application e-mail.