



Olomouc 02.05.2024

The Dean of the Faculty of Science announces a selection procedure for the job position of

Postdoctoral research fellow with focus on quantum nonlinear mechanics

Research Field: Quantum nonlinear mechanics
Number of Posts: 1
Researcher Profile: R2
Programme/Project name: OP JAK QUEENTEC
Department/Facility: Department of Optics
Type of contract: Fixed-term contracts
Job Status: Full-time
Hours per Week: 40
Location: 17. listopadu 12, Olomouc
Offer Starting Date: 01.07.2024

Department/Facility description

<https://optics.upol.cz/en/>

Job Profile

As part of the work package WP1 of the OP JAK QUEENTEC project, the postdoctoral researcher will deal with the analysis of the control of the quantum non-Gaussian properties of the motion and oscillations of cooled atoms, ions, molecules, nanoparticles and other systems, their nonlinear interactions and numerical modelling of these processes and interactions for experimental proposals. The postdoc will collaborate with the theoretical team at the Department of Optics, Faculty of Science UP, led by Prof. Radim Filip, and with experimental teams at the Department of Optics of the Academy of Sciences of the Czech Republic in Olomouc (Dr. Lukáš Slodička), at the Institute of Instrumentation of the Academy of Sciences of the Czech Republic in Brno (Prof. Pavel Zemánek, Dr. Ondřej Číp) and the Jaroslav Heyrovský Institute of the Academy of Sciences of the Czech Republic in Prague (Dr. Juraj Fedor) involved in the QUEENTEC project. The mentor of the postdoctoral researcher will be Prof. Radim Filip.

Requirements

- Ph.D. in Physics
- Specialization in quantum control of mechanical systems, cold atoms, generation of non-Gaussian states by nonlinear dynamics
- Publication track record in quantum control of mechanical systems, cold atoms, generation of non-Gaussian states by nonlinear dynamics
- Ability to communicate in English

What we offer

- Reliable employer
- State-of-the-art equipment for teaching and research
- Professional development opportunities
- 30 days of vacation
- Meal allowance, canteen meals or meal vouchers
- Other benefits



- Workplace within easy reach of public transport, parking available
- Fixed-term contract for 12 months with the possibility of further extension

Documents requested

- CV in English
- Scan of Diploma
- Academic record track over the last 5 years

If you are interested in this position, please, fill in the contact form and attached the requested documents no later than 31.05.2024.

Contact person

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Additional Information

The Palacký University reserves the right not to fill the position in an exceptional case without giving any reason or to cancel the selection procedure.