

Postdoctoral research fellow | Quantum engineering and verification of multi-photon states of light

Wed, 2019-01-09 19:23 - [Radim Filip](#) [1] **At:** Department of Optics, Palacky University, Olomouc, Czech Republic

Deadline: 31 January, 2019

Location

Department of Optics, Palacky University, Olomouc, Czech Republic 17. listopadu 12
Olomouc 77900 Czech Republic

Job type: [PostDoc](#) [2]

Application deadline: Thursday, January 31, 2019

Employer web page: <http://muj.optol.cz/filip/> [3]

Place of work: Department of Optics, Palacky University, Olomouc, Czech Republic

Work load: 1,0 (full-time, 40 h per week)

Start of job: March 1, 2019 and later

Duration of the contract: 24 months

Description:

We are opening a 2.5Y Postdoc position in quantum optics and quantum engineering of multiphoton sources of light, specifically, for new project on preparation and characterisation of light emitted by atoms and solid-state emitters.

The theoretical work of Postdoc will be focused on (i) analysis and simulation of nonclassical multiphoton light emitted atoms and solid-state emitters and (ii) development of experimentally feasible tests with trapped ions, quantum dots and NV centers. Theoretical proposals will be developed inside our quantum optics team (see <http://muj.optol.cz/filip/> [3]) and towards possible experimental tests in collaboration with a partner lab inside the project and foreign labs in Stockholm, Innsbruck, Lyngby and Erlangen. Our research runs in a friendly, collaborative and very international academic environment, including theoretical and experimental physicists in quantum optics, quantum communication, quantum optomechanics, quantum thermodynamics, physics of trapped ions and particles, theoretical and experimental quantum information and classical optics. Postdoc work will be in collaboration with a PhD student and other Postdoc.

Position summary: Full-time temporary employment. The position is limited to a maximum of two and half years. An extension is conditionally possible. Salary is monthly 40.000-50.000 CZK (up to 2000 EURs) before tax and social/health insurance, depending on Postdocs experience. The position can start at any time from March 1 until June 30, 2019.

The application deadline is January 1, 2019. Apply immediately!

Required:

- PhD Degree in Physics, Applied Physics, Applied Mathematics, or equivalent
- fluency in English, oral and written

Important experience:

- quantum physics

Helpful experiences (at least one):

- quantum optics, quantum information, quantum communication, quantum metrology, light-matter integration, trapped-ion physics, solid-state physics

Contact Prof. Dr. Radim Filip (filip [at] optics [dot] upol [dot] cz) directly by email. Include CV and preferably also PhD thesis.

- [Postdoc](#) [4]

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<http://qurope.eu/db/jobs/postdoctoral-research-fellow-quantum-engineering-and-verification-multi-photon-states-light-0>

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