

Post-doctoral position in in integrated quantum optical devices

Thu, 2020-07-16 11:22 - [ICFO - The Institute of Photonic Sciences](#) [1] **At:** ICFO - The Institute of Photonic Sciences

Deadline: 15 September, 2020

Location

Avenue Carl Friedrich Gauss, 3
Castelldefels 08860 Spain
Phone: +34935534101

ICFO-The Institute of Photonic Sciences <https://www.icfo.eu/> [2] (Barcelona, Spain) is offering a postdoctoral position to a well-qualified, highly motivated and dynamic young scientist who wishes to enhance his/her scientific career in a friendly and stimulating environment.

The successful candidate will be joining the **Optoelectronics group** led by **Prof. Dr. Valerio Pruneri**. The group has experience in experimental quantum communication, imaging and integrated quantum photonics.

The successful candidates will carry out their tasks within the joint project Quspin (RTC2019-007196-7). Quspin, one of the projects running in the ICFO-Quside Joint Lab, seeks to develop a hardware-accelerated computer system specialized in the efficient and precise solution of some of the most widespread optimization processes. To achieve this goal, we face the challenge from a dual approach: the development and deployment of Quspin Annealer, an innovative product to accelerate through specialized hardware systems the execution of tempering or annealing algorithms, which have demonstrated its applicability in multiple combinatorial optimization problems.

ELIGIBILITY AND CONDITIONS

Candidates must hold an internationally-recognized Ph.D.-equivalent degree (or evidence of its completion in the nearest future) preferably in Physics or Photonics Engineering.

The candidate should have a proven track record of design, experiments and characterization in integrated photonics, quantum signal processing, and more specifically integrated quantum optical devices.

ICFO is an equal opportunity employer. Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions related to disabilities, citizenship or gender apply to ICFO positions. ICFO abides by the principles of openness, efficiency, transparency, supportiveness, and international comparability as stated in the European Charter for Researchers and the European Code of Conduct for the Recruitment of Researchers.

The contract is offered for periods of one year, renewable for a total of up to 2 years.

APPLICATION PROCEDURE

The formal application should be submitted online via <http://jobs.icfo.eu/?detail=518> [3]

Post-doctoral position in in integrated quantum optical devices

Published on QUROPE (<http://qurope.eu>)

Suitable candidates are requested to submit:

- Presentation letter with a declaration of interest,
- Curriculum Vitae, including contact details,
- The contact e-mail of two potential referees.

Candidates may contact [jobs \[at\] icfo \[dot\] eu](mailto:jobs@icfo.eu) for informal enquiries regarding the application, as well as address scientific enquiries to [valerio \[dot\] pruneri \[at\] icfo \[dot\] eu](mailto:valerio.pruneri@icfo.eu).

The call will remain open until September 15, 2020.

For updated information about ICFO, please visit <https://www.icfo.eu/> [2]

- [Postdoc](#) [4]

Source URL: <http://qurope.eu/db/jobs/post-doctoral-position-integrated-quantum-optical-devices>

Links:

[1] <http://qurope.eu/users/icfojobs>

[2] <https://www.icfo.eu/>

[3] <http://jobs.icfo.eu/?detail=518>

[4] <http://qurope.eu/db/jobs/type/postdoc>