

## **Post-doctoral position in quantum information theory**

Thu, 2020-07-30 11:18 - [ICFO - The Institute of Photonic Sciences](#) [1] **At:** ICFO - The Institute of Photonic Sciences

**Deadline:** 30 September, 2020

### **Location**

Avenue Carl Friedrich Gauss, 3  
Castelldefels 08860 Spain  
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ICFO - The Institute of Photonic Sciences ([www.icfo.eu](http://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 **Quantum Information Theory group** led by **Prof. Dr. Antonio Acín**. The group has experience in the design of quantum information protocols, with an emphasis on quantum cryptographic applications, the study of quantum correlations and the application of quantum information concepts to other fields, such as the study of many-body systems and quantum thermodynamics.

### **ELIGIBILITY AND CONDITIONS**

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

The hired researcher will be working on the application of concepts and tools originally developed in quantum information theory to other research areas. Possible topics of research are: methods for the characterization of many-body systems, understanding of thermodynamic processes at the quantum scale, quantum-inspired or quantum-improved algorithms for optimization or machine learning, the study of open quantum systems, tools to understand causality in the classical and quantum world. Previous experience in any of these topics is not necessary but highly recommended.

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 one more year.

### **APPLICATION PROCEDURE**

The formal application should be submitted online via <http://jobs.icfo.eu/?detail=527> [3]

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 [antonio \[dot\] acin \[at\] icfo \[dot\] eu](mailto:antonio@icfo.eu).

The call will remain open until 30 September 2020.

For updated information about ICFO, please visit <https://www.icfo.eu/> [4]

- [Postdoc](#) [5]

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#### **Links:**

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