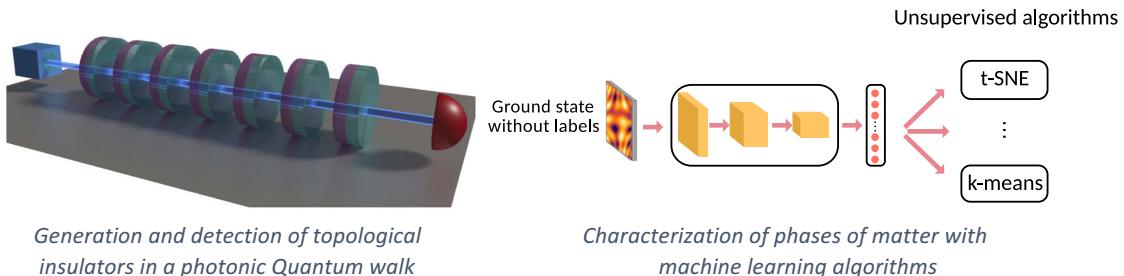


# Post-doctoral position in quantum simulators and quantum machine learning



## Description

The **Institute of Photonic Sciences (ICFO)** 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 Optics Theory group** led by **Prof. Dr. Maciej Lewenstein**. The group has experience in quantum many body physics, quantum optics, classical and quantum machine learning.

The candidate will be working on the project "*Exploring quantum phases of matter with quantum simulators and machine learning*", which is led by **Dr. Alexandre Dauphin** and funded by the La Caixa foundation. The project will focus on (i) studying phases of matter with quantum simulators and machine learning, (ii) quantum machine learning on Noisy Intermediate-Scale Quantum devices and quantum simulators.

## Requirements & Conditions

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

The candidate should have a proven track record of top level research during the PhD studies. Positively valued will be the experience in the points (i) and (ii) mentioned above. Particularly desired is an experience in numerical methods and (quantum) machine learning.

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.

## **Application Process**

The contract is offered for periods of **one year, renewable for a total of up to 1 year.**

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 should be willing to be contacted by phone during the selection process.

<http://jobs.icfo.es/?detail=539>

Candidates may contact [jobs@icfo.eu](mailto:jobs@icfo.eu) for informal enquiries regarding the application, as well as address scientific enquiries to [alexandre.dauphin@icfo.eu](mailto:alexandre.dauphin@icfo.eu)

For updated information about ICFO, please visit [www.icfo.eu](http://www.icfo.eu)

## **Deadline**

30th of November, 2020