

Post-doctoral position in Atomic quantum sensing with single-domain spinor Bose-Einstein condensates

Wed, 2019-01-30 13:55 - [ICFO - The Institute of Photonic Sciences](#) [1] **At:** ICFO- The Institute of Photonic Sciences

Deadline: 15 March, 2019

Location

Avenue Carl Friedrich Gauss, 3
Castelldefels 08860 Spain

DESCRIPTION

ICFO-The Institute of Photonic Sciences 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 **Atomic Quantum Optics group** led by **Prof. Dr. Morgan Mitchell**. Atomic quantum sensing uses the coherence and reproducibility of atomic systems to build extreme sensors, e.g. atomic clocks, gyroscopes and magnetometers. We are working with single-domain spinor BECs as an atomic sensor system, an approach that promises to escape one of the otherwise fundamental limits of atomic sensing, the density-coherence time trade-off. We are looking for a post-doctoral researcher to lead experimental work in this area, building upon a running experiment including all-optical evaporation and shot-noise-limited non-destructive probing by Faraday rotation.

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.

The candidate should have a proven track record of experience with ultracold atoms, high coherence laser systems, control systems, etc.

No restrictions of citizenship apply to the ICFO post-doctoral contracts.

The contract is offered for periods of one year, renewable.

APPLICATION PROCEDURE

The formal application should be submitted online via <http://jobs.icfo.eu> [2].

Suitable candidates are requested to submit:

- Presentation letter with a declaration of interest,
- Curriculum Vitae, including contact details,
- Scanned copies of the complete (Bachelor and Master equivalent) official academic transcripts in English or Spanish,
- The contact e-mail of two potential referees.

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Candidates should be willing to be contacted by phone during the selection process. Candidates may contact jobs [at] icfo [dot] eu for informal enquiries regarding the application, as well as address scientific enquiries to morgan [dot] mitchell [at] icfo [dot] eu. For updated information about ICFO, please visit <http://www.icfo.eu/> [3]

DEADLINE

2019-03-15

- [Postdoc](#) [4]

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