
Post-doctoral position in atomic vapor quantum sensors

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 Atomic Quantum Optics group led by Prof. Dr. Morgan Mitchell.

The group has several active research topics focused on hot-vapor quantum sensors, including miniaturization of optically-pumped magnetometers for magnetoencephalography (MEG) and magnetocardiography, zero- and ultra-low-field nuclear magnetic resonance, and radio-frequency field detection using magnetometers. We work with a variety of international partners, including industrial leaders in biomagnetic instrumentation, in vapor cell miniaturization, and in laser development for atomic sensors. We also have a strong track record of exploring quantum effects such as entanglement and squeezing in atomic vapors.

The successful candidate will be expected to contribute to experimental progress in at least one of the above research areas.

Funded by the European Union.

Requirements & Conditions

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

The candidate should have a proven track record in at least one of the following: atomic physics, semiconductor laser physics, quantum optics, quantum sensing and micro-fabrication.

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.

Salaries for ICFO Postdoctoral positions are assigned by the Selection Committee, based on experience and seniority of the applicant, as well as the assigned tasks and responsibilities within the group. Standard salaries range from a lower level aligned with national Ramon-y-Cajal fellowships to higher levels aligned with Marie Skłodowska-Curie individual fellowships.

The contract is offered for a period of 3 year.

Additionally, a family allowance is also available on request and after corresponding approval for people with family charges in the terms described in the corresponding policy.

Application process

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 will be assessed as they apply and the call will remain open until the suitable candidate is identified.

Candidates may contact jobs@icfo.eu for formal enquiries regarding the application, as well as address scientific enquiries to morgan.mitchell@icfo.eu

For update information about the hosting group, please visit https://www.icfo.eu/lang/research/groups/groups-details?group_id=20 .

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Deadline

Until positions are filled.