



Post-Doc position in Experimental Quantum Optics CNR-INO, Florence, Italy

"Quantum engineering of non-Gaussian light states and entanglement generation"

We are looking for a motivated candidate for a one-year post-doctoral position at the National Institute of Optics, CNR-INO, Florence, Italy, in the framework of the QuantERA Call 2019 Project "ShoQC – Short-range optical Quantum Connections".

The successful candidate will join the group of Dr. **Marco Bellini** (see <https://quantumlight.ino.cnr.it/>) to deal with the experimental implementation of new schemes for the quantum engineering of non-Gaussian light states and the generation of entanglement, with special emphasis on the spectrotemporal control of the light modes.

The successful candidate will be involved in all the activities of the group, which has a recognized world-leading expertise in the engineering of continuous-variable quantum states of light, and will benefit of the large community of researchers and fellows working on different aspect of quantum technologies at CNR-INO and LENS.

Background:

Potential candidates are expected to have completed their PhD in Physics or related subjects (the official degree at the grant starting will be mandatory).

Experience in one or more of the following fields will be taken in good consideration:

- Experimental quantum optics (lasers, SPDC, etc.);
- Quantum state detection (homodyne, tomography, etc.);
- Data handling and analysis;

When:

Application deadline is on Oct. 26th 2022, and the mandatory starting date for the position is at the end of November 2022.

Where:

The *Quantum Light* lab is located inside the Department of Physics & Astronomy of the University of Florence in the Polo Scientifico of Sesto Fiorentino, Florence, ITALY.

How:

Call details are available at https://www.ino.it/?page_id=3444&p=a705

Contacts:

Get in touch with Dr. **Marco Bellini** at the email address: marco.bellini@ino.cnr.it for further information and call details.

