Three different positions: PhD Student in Nitrogen Vacancy Centers; PhD in Quantum Photonics; Post-doc In Optical levitation

The Quantum Nanophotonics Laboratory at the Materials Physics Center in San Sebastian, Spain has open positions in the broad field of Quantum Technologies.

We are seeking highly motivated and talented **PhD students** to join our research team in the exciting and rapidly evolving field of Nitrogen Vacancy (NV) centers and Quantum Photonics. As a PhD student in our group, you will work on cutting-edge research projects in the areas of quantum sensing, quantum information, and quantum communication. You will have the opportunity to work with state-of-the-art equipment and collaborate with leading experts in the field.

The ideal candidates will have a strong background and a Masters degree in physics, engineering, or a related field, and a passion for pursuing research in quantum technology. You should have excellent analytical and problem-solving skills, as well as the ability to work both independently and collaboratively. In addition, you should have strong communication skills and be able to present your research findings in a clear and concise manner.

We are also looking for a **post-doctoral researcher** to join our project on quantum inertial sensors based on optically levitated microparticles. In this project, the candidate will help us to improve our optical levitation set-up and will collaborate in interconnecting our quantum sources of light with the optically levitated particles to achieve quantum enhanced measurements of the dynamical properties of the particles.

The ideal candidate will have a PhD in optical trapping and levitation, quantum photonics or related fields. Experience in programming and electronics equipment will be highly valued.

Our group values diversity and inclusivity, and we encourage applications from individuals of all backgrounds and identities. We are committed to creating a supportive and inclusive work environment where everyone can thrive and reach their full potential. We believe that a diverse and inclusive team leads to better scientific outcomes and fosters innovation.

If you are interested in joining our team and contributing to cutting-edge research in the field of Nitrogen Vacancy centers, Quantum Photonics and Optical levitation, we encourage you to apply and join our dynamic and supportive work environment.

Full details of the offers and how to apply can be found in:

NVs: Predoc-CFM-QNL-NV-GM.pdf (ehu.es)

Quantum Photonics: Predoc-CFM-QNL-Squeezed-GM.pdf (ehu.es)

Optical levitation: Postdoc-CFM-QNL-Gyro-GM.pdf (ehu.es)

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Ángel S. Cifuentes, PhD

Quantum Nanophotonics Laboratory
Centro de Física de Materiales (CSIC-UPV/EHU)
Paseo Manuel de Lardizábal 5
20018 Donostia-San Sebastián, Gipuzkoa, ES
cfm.ehu.es