

Estades de Recerca de Grau de la Fundació Catalunya La Pedrera

Centre de recerca d'acollida: Institut de Ciències Fotòniques

1. Descripció del centre de recerca

The [Institute of Photonic Sciences](#) (ICFO) is a leading research center in the field of photonics, dedicated to advancing the science and technology of light and its applications. Located in the Mediterranean Technology Park in the metropolitan area of Barcelona, ICFO is at the forefront of groundbreaking research and innovation in areas such as quantum technologies, biophotonics, clean tech, and photonic integrated circuits. ICFO employs 500 people, including researchers, PhD students and staff personnel. In its area of specialization and category, the institute is consistently ranked among the highest-quality research institutions worldwide. Our mission is to contribute to scientific knowledge, foster technology transfer, educate of graduate students and postdoctoral researchers, and promote the responsible engagement of science in society.

Adreça:

Parc Mediterrani de la Tecnologia
Av. Carl Friedrich Gauss, 3
08860 Castelldefels (Barcelona), Espanya

2. Descripció del projecte

Projects may be undertaken with any Research Group. Research lines include, but are not limited to:

- Atto-Science, Ultrafast Optics & Nonlinear Optics
- Photovoltaics, Thermal Photonics & Solar Fuels
- Optical Sensing & Optoelectronics
- NanoPhotonics & NanoMechanics
- Ultracold Quantum Gases
- Quantum and Low-Dimensional Materials
- Quantum Communications, Sensing & Simulation
- Quantum Optics & Quantum Information
- Nanophotonics, Condensed Matter Physics & Light-Matter Interactions
- Medical Optics
- Biophysics, Biophotonics & Super-Resolution Imaging

3. Perfil específic

Eligible areas include, but are not limited to, Physics, Engineering, Chemistry, Mathematics and Biology.

Candidates must have a high working knowledge of English.