
Become an ICFO PhD-student

Up to 10 PhD-positions available within the FLIGHT fellowship program (MSCA-COFUND action)

ICFO offers **PhD-fellowship positions** to well-qualified graduate students, who wish to **obtain a doctoral degree in any of the research topics covered at ICFO.**

The positions are offered in the scope of the **FLIGHT** Program, a MCSA-COFUND doctoral program explicitly **focused on intersectoral research training in collaboration with Industrial or Clinical Partners.**

Our *PhD Fellowship Program* welcomes applications from **individuals with a degree in a field of mathematics, science, engineering or medical sciences related to the ICFO research activities.**

Recruited Fellows will have a **choice of 3 PhD tracks:**

- **Clinical** to develop a project in collaboration with one of **Clinical Partners**
- **Industrial** to develop a project in collaboration with one of **Industrial Partners**
- **Enhanced** to develop a project with one of ICFO's **Research Groups**

Fellows in the Industrial and Clinical tracks will be embedded in both organisations, undertaking **secondments of 6-18 months at the Partner during their Fellowship.**

Research projects in the Clinical and Industrial tracks on offer in this call are the following:

Clinical track:

- **CT001: New neuro-monitoring tools for theranostics in neuro-critical care.** Prof. Dr. Turgut Durduran at ICFO and Dr. Maria Poca and Dr. Juan Sahuquillo at Vall d'Hebron Institut de Recerca (Barcelona)
- **CT002: "Thyroid cancer screening with new multi-modal tools".** Prof. Dr. Turgut Durduran at ICFO and Dr. Mireia Mora at Fundació Clínic Barcelona.
- **CT003: "Prefrontal brain activity to understand and act against the development of dementia in aging"** Prof. Dr. Turgut Durduran at ICFO and Dr. Marco Inzitari at Parc Sanitari Pere Virgili (Barcelona).
- **CT004: "Accelerating therapy development for neuromuscular diseases".** Prof. Dr. Pablo Loza-Álvarez at ICFO and Dr. Cecilia Jimenez Mallebera. Institut de Recerca Sant Joan de Déu.

Industrial track:

- **IT001: “Swift leaf: engineering faster molecular switches in plants to optimize their response to sunlight changes”.** Prof. Dr. Nicoletta Liguori at ICFO and Dr. Marta da Silva at Institute of Agrifood Research and Technology (IRTA)
- **IT002: “Continuous variable quantum key distribution with discrete modulation”.** Prof. Dr. Antonio Acín at ICFO and Dr. Marco Cofano at LuxQuanta.

Please, browse the FLIGHT fellowship program website for details about the [research projects on offer in the Industrial and Clinical tracks](#).

Enhanced track:

Up to 4 fellowships are available to work with one of [ICFO’s 24 Research Groups](#). Research lines in the **Enhanced track** will be offered across all ICFO research groups.

Research lines include, but are not limited to theoretical and experimental aspects of:

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

Please, browse our website for details about [ICFO Research Groups and Group Leaders](#). If you are interested in discussing possible research topics, please contact ICFO Group Leaders directly.

HOW TO APPLY

We look forward to receiving your applications. For applications and further information about eligibility requirements, conditions and selection process please visit: <https://jobs.icfo.eu/?detail=734>

For complete information visit the [FLIGHT fellowship program website](#)



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