



## INPhINIT Incoming Doctorate Projects

ICFO has defined 22 potential projects to host up to 35 PhD fellowships for researchers interested in carrying out their PhD project through the INPHINIT call

Project: Neurophotonics And Mechanical Systems Biology  
Group: Neurophotonics and Mechanical Systems Biology  
Group Leader: Prof. Dr. Michael Krieg  
E-mail: [michael.krieg@icfo.eu](mailto:michael.krieg@icfo.eu)

Project: Atom-light interactions as a quantum spin model  
Group: Theoretical Quantum-Nano Photonics  
Group Leader: Prof. Dr. Darrick Chang  
E-mail: [darrick.chang@icfo.eu](mailto:darrick.chang@icfo.eu)

Project: Near-infrared diffuse optical spectroscopy and speckles for non-invasive clinical monitoring  
Group: Medical Optics  
Group Leader: Prof. Dr. Turgut Durduran  
E-mail: [turgut.durduran@icfo.eu](mailto:turgut.durduran@icfo.eu)

Project: Optical parametric oscillators  
Group: Optical Parametric Oscillators  
Group Leader: Prof. Dr. Majid Ebrahim-Zadeh  
E-mail: [majid.ebrahim@icfo.eu](mailto:majid.ebrahim@icfo.eu)

Project: Nanophotonics Theory  
Group: Nanophotonics Theory  
Group Leader: Prof. Dr. Javier Garcia de Abajo  
E-mail: [javier.garciadeabajo@icfo.eu](mailto:javier.garciadeabajo@icfo.eu)

Project: Quantum nano-Optoelectronics  
Group: Quantum Nano-Optoelectronics  
Group Leader: Prof. Dr. Frank Koppens  
E-mail: [frank.koppens@icfo.eu](mailto:frank.koppens@icfo.eu)

Project: Ultrafast Dynamics in Quantum Solids  
Group: Ultrafast Dynamics in Quantum Solids  
Group Leader: Prof. Dr. Simon Wall  
E-mail: [simon.wall@icfo.eu](mailto:simon.wall@icfo.eu)

Project: Live Cell Super-resolution Microscopy  
Group: SLN - Team Wieser  
Group Leader: Dr. Stefan Wieser  
E-mail: [stefan.wieser@icfo.eu](mailto:stefan.wieser@icfo.eu)

Project: Quantum Optics Theory  
Group: Quantum Optics Theory  
Group Leader: Prof. Dr. Maciej Lewenstein  
E-mail: [maciej.lewenstein@icfo.eu](mailto:maciej.lewenstein@icfo.eu)

Project: Low-Dimensional Quantum Materials  
Group: Low-Dimensional Quantum Materials  
Group Leader: Prof. Dr. Dmitri Efetov  
E-mail: [dmitri.efetov@icfo.eu](mailto:dmitri.efetov@icfo.eu)

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Project: Quantum Information Theory  
Group: [Quantum Information Theory](#)  
Group Leader: Prof. Dr. Antonio Acin  
e-mail: [antonio.acin@icfo.eu](mailto:antonio.acin@icfo.eu)

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Project: Ultracold Quantum Gases  
Group: [Ultracold Quantum Gases](#)  
Group Leader: Prof. Dr. Leticia Tarruell  
e-mail: [leticia.tarruell@icfo.eu](mailto:leticia.tarruell@icfo.eu)

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Project: Functional Optoelectronic Nanomaterials  
Group: [Functional Optoelectronic Nanomaterials](#)  
Group Leader: Prof. Dr. Gerasimos Konstantatos  
E-mail: [gerasimos.konstantatos@icfo.eu](mailto:gerasimos.konstantatos@icfo.eu)

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Project: Optoelectronics  
Group: [Optoelectronics](#)  
Group Leader: Prof. Dr. Valerio Pruneri  
E-mail: [valerio.pruneri@icfo.eu](mailto:valerio.pruneri@icfo.eu)

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Project: Organic Nanostructured Photovoltaics  
Group: [Organic Nanostructured Photovoltaics](#)  
Group Leader: Prof. Jordi Martorell  
E-mail: [jordi.martorell@icfo.eu](mailto:jordi.martorell@icfo.eu)

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Project: Super-resolution and single Molecule Biophysics in living cells  
Group: [Single Molecule Biophotonics](#)  
Group Leader: Prof. Dr. María García-Parajo  
E-mail: [maria.garcia-parajo@icfo.eu](mailto:maria.garcia-parajo@icfo.eu)

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Project: Atomic quantum optics  
Group: [Atomic quantum optics](#)  
Group Leader: Prof. Dr. Morgan Mitchell  
E-mail: [morgan.mitchell@icfo.eu](mailto:morgan.mitchell@icfo.eu)

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Project: Quantum NanoMechanics  
Group: [Quantum NanoMechanics](#)  
Group Leader: Prof. Dr. Adrian Bachtold  
E-mail: [adrian.bachtold@icfo.eu](mailto:adrian.bachtold@icfo.eu)

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Project: Quantum non-linear optics with cold atomic systems  
Group: [Quantum Photonics with Solids and Atoms](#)  
Group Leader: Prof. Dr. Hugues de Riedmatten  
E-mail: [hugues.deriedmatten@icfo.eu](mailto:hugues.deriedmatten@icfo.eu)

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Project: Molecular Nanophotonics  
Group: [Molecular Nanophotonics](#)  
Group Leader: Prof. Dr. Niek van Hulst  
E-mail: [niek.vanhulst@icfo.eu](mailto:niek.vanhulst@icfo.eu)

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Project: Attoscience and Ultrafast Optics  
Group: [Attoscience and Ultrafast Optics](#)  
Group Leader: Prof. Dr. Jens Biegert  
E-mail: [jens.biegert@icfo.eu](mailto:jens.biegert@icfo.eu)

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Project: Multidisciplinary research on cerebral blood flow-guided early rehabilitation intervention after stroke combining the development and utilization of a new near-infrared optical neuromonitor and translational clinical research

Groups:  
- <http://www.recercasantpau.cat/es/destacats-home/grupo-de-investigacion-de-las-enfermedades-cerebro-vasculares/>  
- [Medical Optics Research group](#)

Group Leaders:  
Dr. Raquel Delgado-Mederos  
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Prof. Dr. Turgut Durduran  
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