Mediterranean Technology Park,
Av. Carl Friedrich Gauss 3, 08860 Castelldefels (Barcelona)
T. 93 553 40 02 - F. 93 553 40 00
icfo.eu

Post-doctoral position in Translational Research in advanced microscopy and rare diseases.

DESCRIPTION

ICFO-The Institute of Photonic Sciences (https://www.icfo.eu/) is offering a postdoctoral position to a well-qualified, highly motivated and dynamic young scientist who wishes to enhance his/her scientific career in a friendly and stimulating environment.
This position will be dedicated to the research lines developed within the Joint Lab ICFO-SJD. This is the framework of a joint effort between ICFO and Institut de Recerca Sant Joan de Déu aimed at improving neonatal and paediatric healthcare by exploiting the latest developments in Physics and Biomedicine.

The selected candidate will work halfway between the ICFO (under the supervision of **Dr. Pablo Loza-Alvarez**, head of the **The Super-resolution Light-microscopy and Nanoscopy lab (SLN facility)**, http://sln.icfo.eu and the **Institute of Pediatric Research Hospital Sant Joan de Déu (IR-SJD)** (under the supervision of **Dr. Jimenez-Mallebrera** head of the group on Translational Research on Neuromuscular Disorders and **Dr. Roldan**, head of the Confocal microscopy Unit).

The Super-resolution Light-microscopy and Nanoscopy lab (SLN) at ICFO performs R&D in advanced light microscopy techniques that are a step ahead of those commercially available. Research includes advanced confocal and multiphoton microscopy, light-sheet fluorescence microscopy (LSFM), super resolution (STED and STORM) microscopy, and Raman spectroscopy. The SLN hosts 8 full-time (postdoc) researchers, 2 PhD student and 1 technician. The SLN has been designated a Leica Nanoscopy Imaging Centre.

The Institute of Pediatric Research Hospital Sant Joan de Déu (IRP-HSJD) is based at the Hospital Sant Joan de Déu, which is one of the leading Hospitals in Europe for childhood and adolescence. The group at the IR-SJD is a multidisciplinary team working in the diagnosis, management and research of pediatric neuromuscular diseases.

The project is entitled "Application of advanced multimodal microscopy and imaging to foster therapy development in neuromuscular diseases". It aims at developing and applying a range of advanced microscopy (confocal, multiphoton, super-resolution, light sheet microscopy amongst others) and image analysis technologies to study collagen VI and related proteins in the context of Muscular Dystrophies. The objective is facilitate the development and implementation of novel therapies for this group of devastating rare diseases.

REQUIREMENTS AND CONDITIONS

We are looking for candidates with a focus in translational research into rare diseases with the following skills:

Required skills:

- We are looking for highly motivated life scientist holding a bachelor´s degree and a Ph.D. in Life or Biomedical Sciences (Biology, Biotechnology, Biochemistry, Biomedicine and related disciplines).

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- Experience in microscopy and an interest in learning and developing advanced microscopy technologies and related image analysis.
- Experience in sample preparation for microscopy (live and fixed samples).
- Experience in cell culture.
- Experience in molecular biology including cell transfection.
- Candidates must have a strong record of publications as first author in peer reviewed journals as well as demonstrate their participation in competitive projects and grants.
- Good knowledge of both spoken and written English is required.
- Successful applicants are expected to work in an interdisciplinary team, managing multiple tasks, having good organizational skills, and willingness to work outside their core expertise.
- Willing to travel frequently between ICFO (Castelldefels, Barcelona) and the Hospital Sant Joan de Déu (Esplugues de llobregat, Barcelona)
- It is expected that the candidate will apply for competitive funding grant schemes during the contract.

Desirable skills:

- Able to use independently various microscopy platforms including confocal microscopy (or experience at independent user level in confocal microscopy)
- Experience using image analysis software and methodologies. Experience in programming or being able to do macros will be favourable evaluated.
- Qualified to work with experimental animal models in Spain/Catalunya
- Participation and familiarity with writing project proposal, scientific papers and presenting scientific data.

ICFO is an equal opportunity employer. Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions related to disabilities, citizenship or gender apply to ICFO positions. ICFO abides by the principles of openness, efficiency, transparency, supportiveness, and international comparability as stated in the European Charter for Researchers and the European Code of Conduct for the Recruitment of Researchers.

We offer:

- Working in a thriving international environment in two highly prestigious research institutions.
- Commitment to continuous professional development through the ICFO and IR-SJD training schemes in technical and transferable skills.
- The contract is offered for periods of one year, renewable for a total of up to 2 years.

APPLICATION PROCEDURE

The formal application should be submitted online via http://jobs.icfo.eu/?detail=498
Suitable candidates are requested to submit:

- Presentation letter with a declaration of interest,
- Curriculum Vitae, including contact details,
- The contact e-mail of two potential referees.

Candidates may contact jobs@icfo.eu for informal enquiries regarding the application, as well as address scientific enquiries to pablo.loza@icfo.eu
For updated information about ICFO, please visit https://www.icfo.eu/

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