

## Post- doctoral position in Advanced Microscopy

### DESCRIPTION

ICFO-The Institute of Photonic Sciences (<http://www.icfo.eu/>), Barcelona (Spain) is offering a research engineer 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.

The successful candidate will be joining the **Neurophotonics and Mechanical System Biology group** led by **Prof. Dr. Michael Krieg**. The group uses advanced microscopy and machine learning algorithms to gain insights into the functional organization of the nervous system during healthy age and under external mechanical insults to investigate how mechanical stresses collaborate with age in neurodegenerative diseases.

### ELIGIBILITY AND CONDITIONS

Candidates must hold an internationally-recognized Ph.D.-equivalent degree (or evidence of its completion in the nearest future) preferably in applied physics or bioengineering with a strong computational background and optical engineering. Prior experience in machine learning algorithms and advanced microscopy for bio-applications is considered a strong asset.

The highly motivated candidate should have a proven track record in Python programming and should have demonstrated cutting edge research. Positively valued will be experience in tissue culture or C elegans. The successful candidate will develop novel microscope modalities and algorithms for light-sheet experiments using C elegans and/or cerebral organoids as model systems to study conserved mechanoprotection pathways. He/She should have the ability to work well independently as well as part of a team and the ability to manage the day-to-day running of a research project. The candidate will engage in regular mentoring sessions with the PI, providing opportunities to interact and collaborate with research groups across disciplines, thereby preparing the postdoc for an independent academic career.

ICFO is an equal employment opportunity employer. Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions of persons with 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.

The contract is offered initially for periods of one year, renewable for a total of up to four years.

### APPLICATION PROCEDURE

The formal application should be submitted online via <http://jobs.icfo.eu/?detail=526>

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](mailto:jobs@icfo.eu) for informal enquiries regarding the application, as well as address scientific enquiries to [michael.krieg@icfo.eu](mailto:michael.krieg@icfo.eu).

The call will remain open until September 29, 2020.

For updated information about ICFO, please visit <http://www.icfo.eu/>