
PhD-students in Neuronal Cell Biology

The lab of **Neurophotonics and Mechanical Systems Biology** (NeMeSysBio) at ICFO (https://icfo.eu/research/groups-details?group_id=45) is looking for **PhD students to perform research in neuronal cell biology**.

The overarching **goal of our research** is to understand how animals sense minute mechanical forces, and how mechanosensitive neurons remain resilient and sensitive despite being challenged continuously. To solve these questions, we focus on spectrin and microtubule cytoskeleton – how it is assembled, patterned and turned over in axons and dendrites, and how it affects neuronal function in relation to mechano-sensation.

The **successful candidates** will work closely with the PI to design and carry out experiments, using *C. elegans* as a model and employing techniques such as genetics, quantitative imaging and mechanical stimulation using optical tweezers or microfluidic devices.

Several projects with preliminary data are available, depending **on the candidate's interest and previous experience**. If you are self-motivated, hard-working and not afraid of worms, ICFO is a vibrant community, providing opportunities to interact and collaborate with research groups across disciplines, thereby preparing the candidate for an independent academic career.

REQUIREMENTS

Candidates must hold an **internationally recognized Master degree** (or evidence of its completion in the nearest future), with a proven record of academic excellence. Candidates should **ideally have a background in cell biology, neuroscience, biochemistry or bioengineering**.

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.

APPLICATION PROCEDURE

In case of interest, please send the following documents to Prof. Dr. Michael Krieg: michael.krieg@icfo.eu:

- A cover/ motivation letter, outlining your previous research, future aspirations, and how they integrate with lab's interests,
- An updated CV with your contact details,

If you are interested in applying, note that ICFO has a standard admissions policy for PhD-positions. A rolling call, with periodic deadlines, is always open for candidates applying to do a PhD at ICFO. Please stay tuned to our **ICFOJobs webpage** at <https://jobs.icfo.eu> and send your application.