



## [PhD-students in Neuronal Cell Biology](#)

The lab of **Neurophotronics and Mechanical Systems Biology** (NeMeSysBio) at ICFO ([https://icfo.eu/research/groups-details?group\\_id=45](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**.

Female scientists are strongly encouraged to apply.

No restrictions of citizenship apply to the ICFO positions. Persons with disabilities are encouraged to apply.

### **Application procedure and conditions**

If you are interested in applying, please send the following documents to [michael.krieg@icfo.eu](mailto: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, and the names and contact details of at least 2 referees
- Your academic transcripts (Bachelor and Master-studies), so far.

Note that ICFO has a standard admissions policy for PhD-positions, with currently two general calls available per year. Our upcoming Spring 2018 call will be published towards the end of December 2017, with application deadline in February 2018. The call will be available via <http://jobs.icfo.eu> (PhD-Fellows).