

Doctoral position in bioengineering

Application deadline: 20/09/2013



www.nbtunige.it



at the Neuroengineering and Bionanotechnology (NBT) Group, Department of informatics, bioengineering, robotics, and system engineering (DIBRIS) of the University of Genova

The NBT Group at DIBRIS is looking for an **early stage researcher (predoc)** to develop novel tools for in vitro characterization of mechanical and electrical properties of single cells at the nanoscale.

The contract will be within the framework of the **NANOMICROWAVE Marie Curie Initial Training Network** which aims at training a whole generation of researchers in the field of nanoscale microwave technologies and related emerging applications in the fields of semiconductor industry and life sciences.

The successful candidate will develop multidisciplinary research involving:

- Cell preparation and culture.
- Nanoscale mechanical and morphological measurements on single cells.
- Measurements of cell electrophysiology.
- Development of hardware/software for measurement and instrument control

Requirements:

- Degree and Master on any field on Engineering, Physics, Mathematics, Biology, or Biotechnology (completed before the contract starting date).
- Multidisciplinary qualifications (Physics/Bio, Engineering/Bio, etc.), knowledge on Scanning Probe Microscopies and/or cell electrophysiology methods will be a plus.
- High level of English and good communication skills.
- Attitude toward experimental work
- Ability to organize and prioritize own work and organize research within the project schedule.
- Computer literacy, analytical skills and effective team working.

Marie-Curie fellowship Mobility requirement:

Candidates can be of any nationality. At the time of recruitment by DIBRIS, candidates must not have resided or carried out their main activity (work or studies) in Italy for more than 12 months in the 3 years immediately prior to their recruitment.

We Offer:

- Full time 3 year contract. Very competitive salary and mobility allowance. Starting date: 1 January 2014.
- Stimulating, interdisciplinary research and high quality international scientific environment.

Equal Opportunities: Applications from equity target groups and women are encouraged to apply.

For more details about the position, [click here](#).

Interested applicants should contact: Prof. Roberto Raiteri (roberto.raiteri@unige.it)

On line application can be done is at the following link:

<http://www.studenti.unige.it/postlaurea/dottorati/XXIX/bandoGeneraleEN>

Application Reference:

PhD course in: Bioengineering and robotics

Curriculum: Bionanotechnology (code 5120)

Research project number 25: Development of new tools for mechano-electrical characterization of living cells in vitro