



A **PhD position** is available immediately in the group of Dr. Arnaud Noreña at Laboratory of **Integrative and Adaptive Neuroscience**, CNRS-Aix-Marseille University, Marseille, France.

Our group is studying the auditory perception, the neural correlates of auditory perception and the plasticity of auditory centers due to specific acoustic environment or cochlear hearing loss. We have also a strong interest on computational and theoretical neuroscience (neural coding and system dynamics). The salary will be very competitive.

We are looking for a highly motivated candidate to be involved in a project aimed at investigating the cortical plasticity triggered by cochlear hearing loss (and potentially associated to tinnitus – “the auditory phantom perception”) from multi-unit cortical recordings and optical imaging with voltage-sensitive dye. In particular, we are interested in the neural coding of intensity level (from information theory point of view) in presence or absence of hearing loss.

We are looking for a candidate with experience in:

- **central electrophysiology** with arrays of micro-electrodes and/or optical imaging with voltage sensitive dye
- and/or strong background in **neurophysiology, signal processing, information theory and computational neuroscience**
- programming skills in **Matlab** and/or **Python** are also highly desirable
- the candidate should be **non-french citizen**

You are eligible to apply, if you:

- have already received a Master’s Degree or equivalent
- have no longer than 4 years of research experience following that degree
- do not already hold a PhD degree
- have not worked, studied, or carried out your main activity in France for more than 12 months during the previous 36 months (=mobility rule). For refugees there is an exemption of this rule: The refugee procedure will not be counted as a period of residence/activity in the country of the beneficiary. This period will only be counted as of the day that they are recognised as refugees

This position is part of the **European School on Inter-disciplinary Tinnitus research** (ESIT, [www.esit.tinnitusresearch.org](http://www.esit.tinnitusresearch.org)) project, which is a Marie Skłodowska-Curie Action funded by the European Commission (EC).

Please send your application including a CV and motivation letter to Arnaud Noreña: [arnaud.norena@univ-amu.fr](mailto:arnaud.norena@univ-amu.fr).

Also use this email for enquiries of further information to the position.

Website for further information : <http://lnia.fr/>