

Postdoctoral positions: in vivo-EEG for epilepsy research

The **Laboratory of Experimental Electroencephalography and Neurophysiology** invites applications for **2 post-doc positions** to investigate seizure disappearance and repair of the epileptic brain by means of functional intelligent biohybrids.

This is a **high-risk/high-gain project**, recently selected for funding within the **EU funding** scheme FET Proactive (Grant Agreement n°824164 - Acronym: HERMES). The successful candidate will work in a dynamic, interdisciplinary and international environment. The research consortium gathers together experts in tissue/organoid bioengineering, *in vitro* and *in vivo* electrophysiology, neuromorphic engineering, machine learning and artificial intelligence.

The successful candidate will take care of epilepsy models, neurosurgery, *in vivo* video-EEG recordings and analysis. The candidate will also be expected to contribute to the formulation and submission of research publications as well as help manage and direct this complex and challenging project as opportunities allow.

Contracts will last 1 year, renewable.

Applicants must have:

- **Scientific degree** (Biology, Medicine, Biotechnology, ...)
- **PhD** in Neuroscience, Physiology or related disciplines
- **past experience with electrophysiology techniques.**

Fundamental experimental skills:

- Animal models of epilepsy
- Behavioral analysis of epileptic seizures
- Expert knowledge of electrophysiology recordings and analysis.

Fundamental personal skills:

- highly motivated and goal-oriented
- creative and independent thinking
- team-oriented and collaborative attitude
- capable of working under pressure
- excellent written and spoken English.

Plus:

- In vivo video-EEG recordings and analysis
- Neurosurgery experience.

The **application package** should include:

- extended CV, highlighting the names of supervisors
- letter of motivation (max 1 page)
- name, contact information, and letters of recommendation of two referees.

Please send your application **by email** to giulia.curia@unimore.it by **January 6th, 2018**.