EEG Engineer

Location: Brain-Body and Consciousness lab, Departement of Clinical Neuroscience Chemin de Mont-Paisible 16 , 1011, Lausanne CHUV

Dates/Duration: 1st May, 2026 / 1 year, renewable

The CIBM EEG CHUV-UNIL Computational Electrical Neuroimaging Section led by Dr. Marzia De Lucia is looking for an outstanding service oriented research engineer to maintain and develop the EEG infrastructure hosted in the Brain-Body and Consciousness Laboratory at the Department of Clinical Neuroscience according to the highest scientific standard with goal of supporting and developing research projects centered on human electrophysiology and physiological measurements related to bodily signals, including pupil, cardiac and respiratory inputs.

Tasks for the EEG engineer position include

- Ensure a correct use of the lab by providing training and support for the data acquisition
- Propose and implement methods for the analysis and integration of electroencephalographic recordings and peripheral measurements including cardiac, respiratory and eye tracking data
- Propose and develop innovative protocols for research in healthy subjects based on EEG and related signals
- Contribute to write up results in publications for peer-reviewed journals and their dissemination in seminars and workshops
- Contribute to the proper functioning of the CIBM EEG CHUV–UNIL Section, including administrative and organizational tasks
- Participate in the life of the team in a collaborative manner (through meetings, seminars, and discussions).
- Analyse the existing EEG data and manage the organization of the database
- Ensure compliance with legal and ethical provisions in human research
- Develop and maintain documentation for lab materials, data storage and consumables
- Develop and maintain documentation for pipelines and tools both for data analysis and experimental protocol implementations

Qualification, previous experience and background

- MSc or PhD in physics, biomedical engineering, or related fields.
- Demonstrated previous experience with EEG acquisition and analysis
- Demonstrated previous experience with acquisition and analysis of eye-tracking data, ECG and respiratory data analysis and their integration
- Demonstrated previous experience in software development and experimental paradigm programming

Requested Skills

- Very good knowledge of Python and Matlab
- English knowledge (B1+) mandatory, French knowledge (B1+) is a strong advantage
- Strong communication ability and professionalism.
- Excellent inter-personal skills

Desirable

- Knowledge of Lab Streaming Layer for signal acquisition
- Publications in relevant peer-reviewed journals as leading author

We offer:

This position allows the interaction with a dynamic team of scientists, engineers and clinicians across the Lemanic area. The post holder will have the opportunity to be involved in the recordings and advanced data analytics of simultaneous EEG and related physiological signals in healthy and clinical cohorts.

Competitive salary with regular progression, high social benefits, three days of training per year, 25 working days of vacation per year. Our team is committed to gender equity, and we strongly encourage women to apply.

Supervisor

Dr Marzia De Lucia, Brain-Body and Consciousness Lab, Department of Clinical Neuroscience, CHUV, CIBM Center for Biomedical Imaging EEG CHUV-UNIL Section, Chemin de Mont-Paisible 16 , 1011 Lausanne

How to apply:

Send your informal inquiries to delucia.marzia@gmail.com or apply directly on the online CHUV platform link: TBA

About CIBM

The CIBM Center for Biomedical Imaging was founded in 2004 and is the result of a major research and teaching initiative of the partners in the Science-Vie-Société (SVS) project between the Ecole polytechnique fédérale de Lausanne (EPFL), the Université de Lausanne (UNIL), Université de Genève (UNIGE), the Hôpitaux Universitaires de Genève (HUG) and the Centre Hospitalier Universitaire Vaudois (CHUV), with the generous support from the Fondation Leenaards and Fondation Louis-Jeantet.

CIBM brings together highly qualified, diverse, complementary and multidisciplinary groups of people with common interest in biomedical imaging.

We welcome you in joining the CIBM Community.