

## **Postdoctoral Position – EEG, AI & Neonatal Brain Development**

We are recruiting a postdoctoral researcher to investigate early brain development in preterm infants using EEG and artificial intelligence at Picardie Jules Verne University, Amiens, France.

The project aims to develop AI-based models of cerebral maturation during the second and third trimesters of gestation, using one of the world's largest neonatal EEG datasets (>15,000 recordings collected at Amiens University Hospital, France).

The project combines:

- Large-scale EEG analysis and phenotyping
- Machine learning / AI modeling of developmental trajectories

The goal is to build interpretable, scalable tools for evaluation of brain maturation in preterm neonates.

The project is conducted under the co-supervision of Prof. Sahar Moghimi (GRAMFC- Inserm UMR1105) and Prof. Florence Levé (MIS, UPJV), within GRAMFC (Inserm UMR1105, Amiens).

### **Profile / expertise**

PhD in neuroscience, biomedical engineering, data science, or related field

Strong experience in EEG analysis and/or time-series analysis

Strong experience in machine learning and AI models

High skills in Python

Interest in neurodevelopment

Experience with large datasets is highly desirable.

Submission deadline: June 15<sup>th</sup>, 2026

Start date: September 2026

Location: Amiens, France

Duration: 12 months

Salary: According to University standards (depending on experience)

Applications including a CV with up-to-date list of publications, a motivation letter, and the contact information of two referees, should be send to [sahar.moghimi@u-picardie.fr](mailto:sahar.moghimi@u-picardie.fr) and [florence.leve@u-picardie.fr](mailto:florence.leve@u-picardie.fr)