

## Research Engineer in a research laboratory

### Work Environment:

The Neurodegen sub-project of the GPR Brain\_2030 is recruiting a Biology Research Engineer ([https://www.bordeaux-neurocampus.fr/brain\\_2030-labellise-gpr/](https://www.bordeaux-neurocampus.fr/brain_2030-labellise-gpr/)). The project focuses on the study of common and divergent mechanisms underlying defective cell-to-cell communication in three neurodegenerative diseases (Parkinson's disease, Alzheimer's disease, and amyotrophic lateral sclerosis). The candidate will work on the implementation of the project and also in support of the project.

### Workplace:

Institute of Neurodegenerative Diseases, CNRS UMR-5293, Centre Broca Nouvelle-Aquitaine, Bordeaux

### Contact:

Benjamin Dehay: [benjamin.dehay@u-bordeaux.fr](mailto:benjamin.dehay@u-bordeaux.fr)

Stéphane Oliet: [stephane.oliet@inserm.fr](mailto:stephane.oliet@inserm.fr)

Christophe Mulle: [christophe.mulle@u-bordeaux.fr](mailto:christophe.mulle@u-bordeaux.fr)

### Missions:

The main tasks of the engineer will be to set up the project in collaboration with the coordinators; to meet the teams participating in the project to identify, take different samples, and condition them for experimentation or archiving from different tissues of different experimental models of the 3 pathologies; to start the different analyses (RNAseq, electrophysiology,...); to conduct, within the framework of an experimental program, all or part of the biology techniques (histology, electrophysiology, biochemistry, and molecular biology) to characterize animal models in close collaboration with the teams; to develop protocols and to write them.

### Activities:

- Setting up and monitoring the various stages of the project with the teams and core facilities;
- Perform animal sampling according to pre-established protocol;
- Prepare samples for analysis by various biological techniques;
- Prepare brain samples for immunohistochemical studies by making cryostat sections;
- Study the expression of genes of interest by OMICs, RT-QPCR, and Western blot;
- Participate in inventory and order management within the planned budget;
- Collect and format the information necessary for the proper conduct of the experiment and/or required by legislation: laboratory notebook, records;
- Record and format results according to laboratory standards;
- Apply regulations related to activities in animal experimentation.

### Profile sought:

- Education, degree required: Ph.D.

- Desired field of training: Biology, Biochemistry, Biotechnology, Neurosciences, Laboratory sciences and techniques;
- Desired work experience: PhD or to 2 years of experience post-PhD. Possible Knowledge of the Bordeaux Neurocampus environment

### **Skills:**

#### **Knowledge**

- Knowledge in Biology (histology, electrophysiology, biochemistry, and molecular biology...);
- Knowledge of laboratory-specific hazards and Health and Safety regulations;
- Knowledge of animal experimentation will be a plus;
- English language level B1.

#### **Know-how**

- Organization and analysis of experimental data;
- Keeping a laboratory notebook;
- Communication of results to research team collaborators.

#### **Know-how**

- Organization;
- Rigor;
- Critical thinking;
- Interpersonal skills, communication, and teamwork skills.

### **Restriction or constraints related to the position:**

Respect the rules of Hygiene and Safety related to the activity in a laboratory; Work in a confined environment; Possible shifts; Not owning domestic rodents.

### **Taking over:**

The first half of 2022

### **Contract duration:**

The position is for 2 years (with likely extension). The position is advertised until filled. Following a shortlisting process, we will conduct interviews with potential candidates. Please send your application as a single pdf including a cover letter, CV, list of publications, and the names of 2-3 references.