Call for Applications: Postdoctoral Researcher in Neuroscience (M/F) - High-resolution imaging and astrocytic dynamic in Alzheimer disease

Grenoble Institute of Neurosciences (GIN)

Location: Grenoble, France
Duration: 24 months (Fixed-term contract)
Salary: ~€3,100 gross/month
Application deadline: January 31, 2027
Start date: Spring - Summer 2027

Research Environment Overview

The Grenoble Institute of Neurosciences (GIN) is a center of excellence bringing together research teams involved in studying the physiological and pathological processes of the nervous system.

The candidate will join the "Neuropathology and Synaptic Dysfunction" team, consisting of 6 researchers and professors, structured into 3 research axes. Within this team, the work of Mireille Albrieux (Professor - UGA) focuses on characterizing the molecular mechanisms involved in the initiation of Alzheimer's disease, with a particular focus on the tripartite synapse. This work has highlighted the crucial role of astrocytes and the TRPA1 calcium channel in early synaptotoxicity induced by the amyloid-β peptide (Bosson et al., 2017; Paumier et al., 2022).

Objectives and Missions

As part of an ANR-funded project, you will explore the mechanisms of TRPA1's contribution to synaptic dysfunction. Your main mission will be to characterize the morphological and structural changes in astrocytes that contribute to the dystrophy and dysfunction of tripartite synapses.

You will benefit from a technical and scientific environment that will enable you to carry out your duties effectively. This includes access to high-resolution imaging equipment on a dedicated platform, animal models bred on-site that are already characterised, and multidisciplinary national and international scientific collaborations.

Working under the supervision of Mireille Albrieux, your responsibilities will include:

- Studying the morphology and the motility of perisynaptic astrocyte processes (PAPs).
- Analyzing astrocyte dynamics around synapses in pathological contexts.
- Implementing and optimizing high-resolution imaging protocols on living tissue.
- Potential development and adaptation of new tools.
- Analyzing complex data and interpreting results.
- Disseminating results (publications, presentations).

Required profile:

We are looking for a passionate researcher possessing the following qualifications:

Education: PhD in Neuroscience or Biology.
Technical expertise: Proven mastery of high-resolution imaging on living tissue (e.g., biphoton, confocal microscopy, etc.). Proficiency in specific software (e.g., ImageJ, Imaris, Python, R).
Animal experimentation: "Designer" level in animal experimentation (or French equivalent).
Expected level of autonomy: Design and optimize experimental protocols. Help define analytical strategies. Interpret results. Promote research through scientific publications.
Personal qualities: High scientific rigor, autonomy, critical thinking skills, and the ability to work collaboratively within a multidisciplinary team.
Language: French or English.

Terms and Benefits

Contract: 24-month fixed-term contract (CDD).
Salary: Approximately €3,100 gross per month, adjustable based on years of experience.
Working hours: Regime including annual leave and RTT (44 days of rest per year).

Application Process

Please send your application package via email, including:
A detailed Curriculum Vitae.
A cover letter.
Letters of recommendation and contact persons.
Contact: mireille.albrieux@univ-grenoble-alpes.fr
Deadline: January 31, 2027.