Research Engineer in Multiphoton Imaging and Neurotechnologies

General information

Contract duration: 24 months (renewable)
Expected start date: October 30, 2026
Workload: Full-time
Salary: depending on professional experience
Required education level: PhD
Required experience: Experience in two-photon microscopy and imaging in biological samples, preferably *in vivo*. Experience in *in vivo* neuroscience and animal experimentation (with certification if applicable) is not mandatory but would be an asset.

Mission

The CIRCUITPHOTONICS platform is seeking a highly qualified and motivated Research Engineer holding a PhD to operate, develop, and optimize multiphoton microscopy systems for studying neuronal activity in awake mice and/or primates (saïmiri). The candidate will have strong expertise in two-photon microscopy and will work closely with researchers to adapt protocols to specific experimental needs.
The position involves operating and further developing several imaging systems, including the Bruker microscope (galvanometric and resonant scanning), the Karthala system (equipped with acousto-optic deflectors for random-access imaging in 2D and 3D, as well as dynamic holographic excitation and various photostimulation techniques), training users on and operating the three-photon microscope, using the DeepColor photoacoustic imaging system, and implementing and operating the recently acquired Mini2P system.

Main Activities

- Operation and maintenance of multiphoton microscopes (Bruker, Karthala, 3P, Mini2P), photostimulation systems, and photoacoustic imaging equipment
- Adaptation of imaging protocols for observing neuronal networks in awake mice and primates (saïmiri)
- Training users on platform equipment and supporting them during experiments
- Participation in the implementation of new devices or experimental protocols
- Technological monitoring and continuous skill development
- Writing technical reports and contributing to scientific publications

Skills :

- **Knowledge**
  - Experience with at least one of the following systems: Bruker, Karthala, Mini2P, DeepColor
  - Strong command of written and spoken scientific English (B2 level or higher)
  - Neuroscience, cell biology, and *in vivo* imaging

- **Technical skills**

  - Maintain and monitor equipment
  - Provide technical supervision to users
  - Prepare, perform, and monitor experimental protocols
  - Adapt and optimize imaging protocols

- **Soft skills**

  - Autonomy, rigor, and organizational skills
  - Adaptability and initiative
  - Team spirit and a service-oriented mindset
  - Effective communication with diverse stakeholders

- **Operational skills**

  - Writing reports, technical notes, and protocols
  - Adapting analytical and experimental technologies to research needs
  - Providing technical and scientific support to projects
  - Active technological and scientific monitoring
  - Applying health and safety regulations

Work Environment

- **Location:** The position is affiliated with the INMED, but the work will take place across the entire CIRCUITPHOTONICS multisite platform (INMED and INT).
- **Working conditions:** The CIRCUITPHOTONICS platform is distributed across two laboratories: INMED (Luminy campus) and INT (Timone campus). The engineer will therefore be required to travel regularly between the two sites.

How to Apply

Please send your CV, a cover letter, and two reference letters to **aurelie.picardo-carabalona@univ-amu.fr** before **July 6, 2026**.