



# Postdoc position Systems Neuroscience

• We are looking for a highly motivated neuroscientist or engineer as a **Postdoctoral Researcher** to join the Liebscher Lab (<https://sysneuro.i-med.ac.at>), where we investigate how **neural circuit dysfunction drives CNS disorders**, with a primary focus on **amyotrophic lateral sclerosis (ALS)** and **frontotemporal dementia (FTD)**. Our mission is to uncover the cellular, molecular, and network mechanisms underlying disease progression – and to translate these insights into therapeutic strategies. Our lab combines *cutting-edge in vivo imaging, electrophysiology, in mouse models and computational modeling with multiomics* to bridge mechanistic understanding from the neuron to the brain-wide circuit level. You will work on high-resolution mapping of network changes during neurodegeneration and test interventions aimed at rescuing circuit dysfunction and evaluating outcomes using state-of-the-art behavioral characterization.

We are seeking an expert in neural circuit analysis with experience in:

- In vivo two-photon imaging or
- Functional ultrasound imaging or
- Electrophysiology (neuropixels) in behaving animals
- Quantitative data analysis and computational modeling of network activity
- Proficiency in programming and instrument control using Matlab, Python, Labview etc.
- Expertise in data acquisition systems, signal processing and analysis pipelines

This is a **full-time position** available from **June 15th, 2026** with a competitive salary (~70.000 Euro/y) based on institutional guidelines initially for 4 years. The position includes responsibilities in research and academic service within the institute with the goal **to advance into a tenured group leader position**, supporting the development of an independent scientific career.

## Requirements

- PhD in Neuroscience, Engineering, Bioinformatics, Computational Biology, or related field
- Proven track record in relevant techniques for the position applied
- Strong analytical skills and ability to work in and also lead a multidisciplinary team
- Develop and write competitive research grants
- Excellent communication and collaborative skills

## What We Offer

- A dynamic, interdisciplinary, international and diverse research environment with state-of-the-art facilities at the Biocenter and the Medical University of Innsbruck
- Opportunities to develop and lead independent research projects
- Access to large, unique datasets and advanced experimental platforms
- Support for career development, conference travel, and collaborations
- Equal opportunities for all: we offer a supportive atmosphere to grow professionally and are dedicated to diversity and equal opportunity, including increasing the representation of women in all areas.

• You love science and nature? This place is for you! Our lab is based in Innsbruck, right within the majestic Alps, offering a unique blend of cutting-edge neuroscience research with unparalleled access to outdoor adventure. Beyond a vibrant scientific community, the location invites you to enjoy world-class hiking, mountain biking, skiing, snowboarding, and climbing, all within a short drive.

If you are passionate about understanding and ultimately intervening in the **circuit-level causes of neurodegeneration**, we would love to hear from you.

**Applications:** Please send your CV, letter of motivation, and contact information for two references to [sabine.liebscher@i-med.ac.at](mailto:sabine.liebscher@i-med.ac.at). Deadline: **6th of May 2026**

