

The Max Planck Institute for Brain Research (MPI for Brain Research) in Frankfurt/Main is a vibrant research institution in the field of basic biological and medical research, with a focus on understanding the functions of the brain's circuits. Our institute has approx. 300 employees in three research departments and four research groups, as well as several service units.

The Laurent Department and Scientific Computing facility are looking for a

Master Student (m/f/d)

interested in pursuing a Master Thesis for 6 months or longer

The Laurent Department investigates brain circuits in nontraditional animal models (turtles, lizards and cuttlefish), to identify evolutionarily conserved and divergent principles of brain function. The Scientific Computing supports groups at the MPI for Brain Research with data analysis.

Your tasks:

You will be part of a team applying bioinformatic analysis on multi-omics data, identifying and characterizing cell types and brain regions in non-traditional animal models. Main tasks will revolve around:

- Implementing a pipeline to facilitate batch processing of next-generation sequencing on a compute cluster
- Applying modern machine learning techniques (e.g. dimensionality reduction and clustering) on gene expression data
- Graphic representation of results, reinforcing analysis interpretation and understanding

Your profile:

You should be familiar programming (e.g. python, R, command line interfacing). Prior experience with the analysis of (single-cell) transcriptomic or epigenomic data is desirable, but not required. You will work closely with the rest of the team, therefore we are looking for a candidate with good communication skills, and a good knowledge of English is required.

We offer:

- High-Tech lab facilities, state-of-the-art methods in neuroscience and compute infrastructure
- A highly interactive atmosphere within an international, collaborative researcher team
- In house Cafeteria and Bistro
- Corporate Health Management (e.g. sport courses)
- Free parking on the institute's premises



The Max-Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, the Max Planck Society seeks to increase the number of women in those fields where they are underrepresented and therefore explicitly encourages women to apply.

The compatibility of work and family is very important to us; we offer the possibility of childcare in the kindergarten Kairos close to our institute. For more information, please visit our [website](#).

Please send your full application, including a letter of motivation together with a full CV in English, and related certificates electronically as a single pdf file by **28th February, 2023** to david.hain@brain.mpg.de.

