

## Paris Brain Institute (ICM) is recruiting a:

### Senior bioinformatician (M/F)

*Soon as possible*

*Permanent contract*

*At Paris*

*The Paris Brain Institute (ICM) is a private foundation recognized as being of public utility, whose purpose is fundamental and clinical research on the nervous system. On the same site, 800 researchers, engineers and doctors cover all the disciplines of neurology, with the aim of accelerating discoveries on the functioning of the brain and the development of treatments for diseases such as: Alzheimer's, Parkinson's, multiple sclerosis, epilepsy, depression, paraplegia, tetraplegia, etc.*

## POSITION

### **Context**

The Data Analysis Core facility (DAC) is a core facility of the Paris Brain Institute that supports researchers in the discovery of new insights and treatments in the field of neurological diseases and disorders. The DAC consists of an enthusiastic interdisciplinary team of experts in biostatistics, bioinformatics, image analysis, and data managers. We accompany researchers throughout the research cycle, by providing robust and reproducible analyses, expert advice, training, and the development of new solutions for emerging technologies. If you are interested in the brain and want to contribute to discoveries in a stimulating research environment, the DAC could be the place for you.

### **Missions**

We are looking for senior bioinformatician to reinforce our ability to tackle the questions of today. The fast-evolving field requires initiative to find solutions, and a sensitivity to quality control, communication with research teams, and teamwork. Technical expertise and experience in several omics modalities are needed to meet the increasingly complex and multimodal bioinformatics approaches. As a member of our omics analysis team, you will be responsible for the translation of biological questions into actionable insights through bioinformatics analyses. You will be expected to be independent in managing multiple projects simultaneously, ensuring quality through regular rapports and communication with research teams under the supervision of our omics team manager and supported by the team's project manager.

- Provide support to research teams in the analysis and interpretation of (multi)omics data, including (but not limited to) scRNAseq and Spatial Transcriptomics.
- Participate in developments of bioinformatics pipelines and workflows for (multi)omics data analysis, ensuring accuracy, reproducibility, and scalability.
- Collaborate with computational biologists, geneticists, and clinicians to integrate (multi)omics data and facilitate translational research efforts.
- Stay updated with the latest advancements in omics technologies, bioinformatics tools, and analytical methods, and contribute to the continuous improvement of data analysis workflows.

## PROFILE

### *Know-how*

- Expertise in the analysis of several omics data types, e.g. spatial transcriptomics, single-cell and/or bulk RNA sequencing, single-cell and/or bulk ATAC sequencing, proteomics, WGS/WES sequencing, methylation data, CHIPseq.
- Experience in complex experimental designs, e.g. non-custom references, multi-omics data integration, and integration of multiple variables in bulk designs.
- Proficiency in UNIX environments (shell).
- Proficiency in R (required), and Python (desired), in a version-controlled setting (Git).
- Proficiency in data visualization.
- Professional experience of at least four years in the field of omics analysis in academia or industry.
- Proven experience in routine and complex omics analyses.
- Proven experience in communicating and interpreting results for researchers/biologists.
- Academic reading, writing, and conversational skills in English (required) and French (desired).

### *Knowledge*

- Minimum Bac+5 (master or engineer) in bioinformatics, or equivalent level in biology/computing.
- Training in omics analyses, including but not limited to, batch effect correction, differential expression, pathways enrichment, trajectory analyses, and deconvolution.

### *Soft skills*

- Ability to work in a team according to common procedures.
- Autonomy, initiative, and flexibility in finding solutions for new and unexpected issues.
- Ability to communicate with people from various scientific and technical backgrounds.
- Motivation to advance research in neuroscience!

### *Conditions*

- Remuneration: according to the level of study and experience.

Please send your CV and letter of motivation (in English), indicating name and contact details of two references (incomplete dossiers will not be considered) to [recrutement@icm-institute.org](mailto:recrutement@icm-institute.org) and [marie.coutelier@icm-institute.org](mailto:marie.coutelier@icm-institute.org) with the subject: ***“Senior bioinformatician (M/F)”***.