

Junior Postdoctoral Position in Spatial Transcriptomics Analysis

Job Profile

CSS 3 / 5

Offer description

Context

The Lymphocytes B Autoimmunity and Immunotherapies unit is seeking a highly motivated postdoctoral researcher to advance our understanding of the cellular mechanisms in the inflamed salivary glands of patients with Sjögren's Disease. The successful candidate will focus on the analysis of transcriptomics datasets (spatial transcriptomics datasets using Visium HD, Xenium, and CosMx technologies, as well as single cell datasets) already generated within the laboratory, with the aim of extracting novel biological insights through advanced computational approaches.

Working environment

The successful candidate will join the collaborative team of Lymphocytes B, Autoimmunity and Immunotherapies in Brest (LBAI, UMR1227), which brings together researchers, clinicians and bioinformaticians. They will benefit from the excellent scientific and collaborative environment of the institute. In particular, the postdoctoral researcher will be supervised by Dr. Marie Frutoso (ATIP-Avenir young group leader) and Professor Divi Cornec (head of the institute).

Candidate profile and skills

Applicants must hold a PhD with a solid background and a proven track record in bioinformatics and immunology. They should have strong expertise in data analysis and computational methods for high-dimensional biological datasets, as well as proficiency in R and/or Python programming. Previous experience with single-cell and/or spatial omics data is highly desirable. Knowledge of immunology or image analysis would be considered an advantage.

The successful candidate should be able to apply a range of computational tools to generate meaningful biological insights. Strong scientific writing skills and prior experience in preparing manuscripts are essential. They are also expected to demonstrate autonomy, team spirit, and excellent communication skills. Fluency in English, both written and oral, is required.

Why applying

This position offers the opportunity to work with cutting-edge spatial and single-cell transcriptomics datasets, providing a solid basis for innovative bioinformatics research. The scientific questions related to Sjögren's Disease are both biologically and computationally stimulating, making this role particularly attractive for developing new approaches and extracting meaningful insights. The position also emphasizes scientific dissemination, with

the clear objective of preparing high-quality publications that will enhance the visibility of the research and support the candidate's future career progression. Beyond the data and scientific goals, the collaborative and multidisciplinary team, together with the institute's strong research environment, ensures an excellent setting for advancing expertise while contributing to impactful discoveries. The location in Brest further combines a dynamic academic atmosphere with a high quality of life.

- Researcher profiles**
- First-Stage Researcher (*PhD candidate*)
 - Recognised Researcher (*with less than 4 years research experience after PhD*)
 - Established Researcher (*with more than 4 years research experience*)
 - Leading Researcher

- Research Fields (2 max.)**
- | | |
|--|---|
| <input type="checkbox"/> Biological Sciences | <input type="checkbox"/> Medical Sciences |
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> Neurosciences |
| <input checked="" type="checkbox"/> Computer Science | <input type="checkbox"/> Pharmacological Sciences |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Physics |
| <input type="checkbox"/> Environmental Science | <input type="checkbox"/> Technology |
| <input type="checkbox"/> Ethics in Health Sciences | <input checked="" type="checkbox"/> Other (specify): Immunology |

- Main Activities**
- Analyze transcriptomic datasets to study spatial interaction of immune and non-immune cells in inflamed tissues of Sjögren's Disease patients using a range of computational tools.

- Associated Activities**
- Other activities include (but are not restricted to) scientific writing for high-quality publications, scientific communication (lab meetings, conferences, scientific vulgarization ...)

- Specific Requirements or Constraints**
- On-site work is required.

Skills/Qualifications

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- Required Experience**
- 0 to 2 years 2 to 4 years 4 to 10 years >10 years
- Fields:** immunology, computational biology

- Required Education Level or Diploma**
- PhD

- Required Languages**
- French, english

Hosting Unit

Code	UMR1227
Name	B Lymphocytes, Autoimmunity and Immunotherapies (LBAI)
Director	Pr. Divi Cornec
Composition	https://www.univ-brest.fr/lbai/en?q=fr
Address	9 rue Félix le Dantec, 29200 Brest
Website	https://www.univ-brest.fr/lbai/en?q=fr

Contract

Type	Fixed-term
Duration	24 months
Salary	According to INSERM grid
Envisaged Start Date	March/April 2026

Application

Applicants must send a CV, 2 references' contact information, and a cover letter to: marie.frutoso@inserm.fr

Deadline for application:

Documents are expected by February, 28th 2026