Job Title: Bioinformatician
Department: Rheumatology
Location: Charité- Universitätsmedizin Berlin, Campus Mitte
Employment Type: Full-time/Part-time

About the Role

We are seeking a highly motivated and skilled Bioinformatician to join our Rheumatology Department. This role offers an exciting opportunity to work at the interface of computational biology and translational medicine, contributing to cutting-edge research into rheumatic diseases.

The nature of the role (PhD student, postdoc, staff scientist) is open for discussion.

The successful candidate will support the analysis of ongoing experimental data while also driving innovation in the integration and interpretation of complex, multi-dimensional datasets derived from patient samples.

Key Responsibilities

- Perform computational analysis of high-throughput sequencing datasets, including:
    - Single-cell RNA and ATAC sequencing
    - Spatial multiomics/transcriptomics (Xenium and similar)
    - Bulk RNA and ATAC-seq
    - CUT&RUN
    - NULISA
- Develop, implement, and optimize bioinformatics pipelines for data processing and analysis
- Integrate multi-omics datasets with clinical and patient-derived data
- Contribute to the development of novel computational approaches for combining large-scale datasets
- Collaborate closely with wet-lab scientists, clinicians, and other computational researchers
- Interpret and present findings to multidisciplinary teams
- Ensure reproducibility, documentation, and proper data management practices

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Required Qualifications & Skills

- PhD or MSc in Bioinformatics, Computational Biology, Genomics, or a related field
- Strong programming skills in R and Python
- Proven experience analyzing next-generation sequencing (NGS) data
- Hands-on experience with at least some of the following:
    - Single-cell transcriptomics

    - Epigenomics (ATAC-seq, CUT&RUN, ChIP-seq)
    - Spatial transcriptomics or multiomics
- Experience working with large-scale datasets and high-performance computing environments
- Familiarity with statistical methods for high-dimensional data analysis
- Knowledge of data integration techniques across multiple modalities
- Strong problem-solving skills and the ability to work independently

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Desirable Skills

- Experience working with clinical or patient-derived datasets
- Knowledge of rheumatology or immunology
- Experience in machine learning or AI approaches for biological data
- Familiarity with workflow management systems (e.g., Snakemake, Nextflow)
- Experience with cloud computing platforms

What We Offer

- Opportunity to work on impactful, translational research
- Access to cutting-edge technologies and datasets
- Collaborative and interdisciplinary research environment
- Career development and training opportunities

How to Apply

Please submit your CV and a brief cover letter outlining your experience and motivation to: kroenke-labor@charite.de.

Application Deadline: Open end

We are committed to fostering an inclusive and diverse research environment and encourage applications from all qualified candidates.