



MaaT Pharma is a late-stage clinical biotechnology company and a leader in the development of microbiome-based drugs designed to modulate the immune system of cancer patients and improve their survival. Backed by an expert team committed to making a difference for patients worldwide, the company was founded in 2014 and is headquartered in Lyon, France.

A pioneer in its field, MaaT Pharma reached a major milestone in January 2025 with positive topline results from its Phase 3 clinical trial evaluating its microbiome-based immunomodulatory drug candidate in oncology. Leveraging its proprietary pooling technology (combining donations of healthy microbiota) and microbial co-culture platform, MaaT Pharma is at the forefront of microbiotherapy—a new therapeutic class—and is initially focused on improving survival outcomes for cancer patients. MaaT Pharma has been listed on Euronext Paris (MAAT) since 2021.

Based in Lyon 7th, we are currently seeking a:

Lead Bioinformatics Developer (M/F)

Open to candidates with disabilities

Job Description

The Lead Bioinformatics Developer will own and drive the development and continuous improvement of proprietary, scalable bioinformatics tools for multi-omic data analysis in support of MaaT Pharma's discovery and translational platforms. He/She will combine expertise in software engineering practices with domain expertise in multi-omic analysis. He/She will combine strong software engineering practices with deep expertise in multi-omic analysis, and will oversee, in coordination with specialized external partners, the industrialization, cloud deployment, and scaling of the solutions in highly secure environment. He/She will perform GxP validations when required and ensure compliance with quality and regulatory standards. He/she will provide expert support to operational teams and guarantee the performance and security of the tools and the hosting computing infrastructure.

Your Main Responsibilities

- Define the technical strategy and roadmap for bioinformatics tools and pipelines ;
- Design, prototype, and evaluate PoCs for core analytical components to guide technical decisions before production development ;
- Select and supervise external specialized vendors (cloud, security, scaling) for industrial-grade deployments, ensuring architecture robustness and production readiness ;
- Manage bioinformatic development projects in an agile framework, from design to delivery to the operational teams in charge of data analysis, ensuring quality and regulatory standards are met (including GDPR) and engineering best practices are followed ;
- Partner with cross-functional teams to align development activities with program needs ;
- Write and maintain comprehensive technical documentation, and perform GxP validation of bioinformatics tools when required in collaboration with the Quality Assurance team ;
- Act as a support resource for users, addressing tool-related questions and troubleshooting issues, and delivering training sessions ;
- Ensure continuous improvement and innovation in bioinformatics tools and computational infrastructure; Maintain current knowledge of developments in the field and deploy new methods as needed to meet operational needs ;
- Collaborate with the IT team to ensure optimal performance and security of the computing infrastructure hosting proprietary tools.

Qualifications and Experience

- Master's degree or PhD in Bioinformatics, Computational Biology, Genomics, Computer Science, or related field ;
- 5+ years of experience in developing bioinformatics tools in an industrial setting, ideally in a regulated environment (preferably in the pharmaceutical industry) ;
- Strong experience in project management and service provider management ;
- Experience in computerized system validation ;
- Experience handling personal data under GDPR ;
- Proficiency in programming languages (e.g. Python, R, bash...) and advanced pipeline development tools (e.g., Nextflow, Docker, Singularity...) ;
- Strong statistical skills, including multivariate analysis (e.g., PCA, clustering, ordination methods) to support visualization and interpretation of complex datasets ;
- Experience with data visualization libraries and dashboards (e.g., Plotly, Shiny, Dash, ggplot2) ;
- Knowledge of omics data analysis methodologies and tools (e.g., metagenomics) ;
- Knowledge of computing infrastructure operation and management (particularly in HDS – Health Data Certified - environments) and hands-on experience with AWS (preferred) or other cloud service providers ;
- Experience working with non-technical teams, strong communication skills, and stakeholder management skills ;
- Fluency in English.

You are a strong communicator with excellent adaptability. You are known for your out-of-the-box thinking, energy, active listening skills, and proactivity, as well as a great team spirit—all qualities we value for this exciting opportunity.

If you're motivated to join a curious, human-sized team working in an innovative and entrepreneurial environment, we encourage you to apply by sending your CV and a brief motivation email to: careers@maat-pharma.com