



Scientist, Immune Cell Biology

About MaxCyte:

MaxCyte is a leading commercial cell-engineering company focused on providing enabling platform technologies to advance innovative cell-based research as well as next-generation cell therapeutic discovery, development, and commercialization. Over the past 20 years, we have developed and commercialized our proprietary Flow Electroporation® platform, which facilitates complex engineering of a wide variety of cells. Our ExPERT™ platform, which is based on our Flow Electroporation technology, has been designed to support the rapidly expanding cell therapy market and can be utilized across the continuum of the high-growth cell therapy sector, from discovery and development through commercialization of next-generation, cell-based medicines. The ExPERT family of products includes: four instruments, the ATx™, STx™, GTx™, and VLx™; a portfolio of proprietary related processing assemblies or disposables; and software protocols, all supported by a robust worldwide intellectual property portfolio.

Job Summary:

The Immune Cell Biology Scientist will expand MaxCyte's capabilities for non-viral cellular engineering by studying phenotypic and physiological responses of immune cells to electroporation and related methodologies for genomic and cellular modification. This individual will generate and analyze complex data sets to identify phenotypic markers and components of signaling and metabolic pathways that vary in response to cellular engineering methodologies. Working with other team members, the Immune Cell Biology Scientist will leverage key discoveries to expand MaxCyte's patent portfolio and develop novel strategies for enhancing the function and fitness of engineered immune cells. They will also serve as a scientific resource for MaxCyte's partners and customers who are developing immunotherapies. The ideal candidate will have a strong research background in immunology with robust skills in cellular and molecular immunology, immune cell culture, genetic modification of primary human immune cells and analysis of genomic and transcriptomic data sets, including single cell analyses. We are seeking a flexible self-starter with the breadth of professional experience and drive to work effectively with both internal and external partners in a highly matrixed and cross-functional organization.

Job Responsibilities:

- Designs and conducts experiments to characterize human immune cells engineered via scalable electroporation, gene editing and other non-viral methodologies
- Identifies patterns, builds models, and algorithms to help understand complex multiple-omics datasets

- Collaborates and manages relationships with cross functional internal stakeholders including Research and Development, Manufacturing Operations, Engineering, Legal and Marketing
- Prepares and reviews technical documents for patent applications.
- Develops, revises, and reviews SOPs, protocols, and process development and technical reports.
- Maintains appropriate level of documentation and follows Good Documentation Practices.
- Manages timelines and deliverables and develops reports for various projects.
- Coordinates parallel tasks across multiple projects, demonstrating prioritization.
- Trains/Supervises research associates.
- Other duties as assigned.
- Complies with all applicable laws and Company policies regarding health, safety, and environment.

Job Requirements:

- Requires Doctorate degree and 2-3+ years' experience or Master's degree and 4+ years' experience
- In depth knowledge of immune cell biology and experience handling and culturing mammalian cell lines and primary cells, including blood cells, is mandatory
- Expertise in Computational Biology, Bioinformatics and Biostatistics
- Extensive experience in the analysis and understanding of immune cells and molecules, including proficiency in multi-parameter flow cytometry (panel design, sample acquisition, data processing)
- Ability to independently conceive experimental designs, make detailed observations, analyze and interpret data, propose improvements to and troubleshoot experimental protocols
- Strong quantitative, qualitative, and critical thinking skills and abilities. Ability to adapt to changing needs as experiments develop or priorities change.
- Strong troubleshooting skills with the ability to “think outside the box”.
- Strong written and oral communication skills are essential; ability to present thoughts clearly and concisely.
- Ability to effectively collaborate with and lead vendors, customers, colleagues, and direct reports across teams. Detail oriented with proven organization and project management skills.
- Experience working with bioinformatics/genomics tools for analysis of data such as RNA-seq, ChIP-Seq, ATAC-seq, etc.
- Knowledge of scientific applications such as GraphPad Prism, FlowJo, FACSDiva and Spotfire are highly desirable

Desired Key Competencies:

- Comfortable in a fast-paced small company environment with minimal direction and able to adjust workload based upon changing priorities.
- Self-motivated and willing to accept temporary responsibilities outside of initial job description and perform other responsibilities to support the needs of the department, as assigned. Responsive, can-do attitude.
- Positive interpersonal skills with the ability to interact with individuals in levels and function. Deals with conflict in a direct, positive manner.
- Self-organized, meticulous hands-on habits, keen attention to detail. Effective organization and implementation of group projects.
- Strong quantitative and analytical skills. Able to reach rational conclusions through complex processing of information.
- Excellent verbal and written communication skills.
- Maintain a high degree of ethical standard and trustworthiness.
- Ability to think and adapt to a rapidly changing environment and demands.
- Energized by accomplishments and excellence in the workplace.
- Capable of high performance in independent work as well as in team setting.

MaxCyte, Inc. is an equal opportunity employer. To apply, please send your resume and cover letter to careers@maxcyte.com. Please reference ***Immune Cell Biology Scientist*** in the subject line.