Senior Scientist, Cell Therapy Process Development

About MaxCyte:

MaxCyte, the clinical-stage global cell-based therapies and life sciences company, uses its proprietary next-generation cell and gene therapies to revolutionize medical treatments and ultimately save lives. The Company's premier cell engineering enabling technology is currently being deployed by leading drug developers worldwide, including all of the top ten global biopharmaceutical companies. MaxCyte licences have been granted to more than 140 cell therapy programs, with more than 100 licensed for clinical use, and the Company has now entered into ten clinical/commercial license partnerships with leading cell therapy and gene editing developers. MaxCyte was founded in 1998, is listed on the London Stock Exchange (AIM:MXCT, MXCL) and is headquartered in Gaithersburg, Maryland, US. For more information, visit www.maxcyte.com.

Job Summary:

The Senior Scientist, Cell Therapy Process Development position plays a key role in implementing and optimizing processes related to the development of cellular therapies involving ex vivo engineering of primary immune cells and stem cells via flow electroporation. This individual will work independently to optimize cell isolation and culture protocols, develop assays, and integrate cell culture platforms and analytical technologies into a GMP-compliant workflow for non-viral cellular engineering. 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:

- Leads the establishment of a PD lab, including installation of equipment and the implementation of lab SOPs
- Supports cross-functional projects with biological scientists, mechanical/electrical engineers, and marketing/business development stakeholders
- Participates in internal and external collaborations to evaluate and implement new process technologies
- Improves non-viral cell engineering processes through designed experiments using innovative approaches
- Performs analytical assays to drive data collection for process development experiments
- Maintains up to date knowledge of cell therapy manufacturing trends and provides recommendations regarding manufacturing process improvement initiatives

- Develops, revises, and reviews SOPs, protocols, and process development and technical reports
- Complies with all applicable laws and Company policies regarding health, safety, and environment.

Job Requirements:

- PhD in immunology, cell biology, biochemistry, biology, bio or chemical engineering, or a related discipline with at least 5 years of hands-on experience in the cell therapy sector of the biopharmaceutical industry or a minimum of 10 years relevant experience with a master's degree.
- Excellent understanding of mammalian cell biology and metabolism
- Experience with cell processing techniques, cell culture methods for preparation of therapeutic cells, and cell separation technology, including product process optimization for multiple primary cell types (PBMCs, T cells, NK cells, stem cells, etc.)
- Experience with manufacturing scale processes using various cell culture platforms (e.g. Cell Factories, G-Rex's, Bioreactors, etc.) and equipment (CliniMACS, Sepax, LOVO etc.)
- Significant experience in engineered cell therapies with special emphasis on non-viral methods
- Thorough knowledge of cGMP manufacturing, process automation and technology transfer
- Extensive experience with analytical methods for cell and gene therapy, including in depth knowledge of flow cytometry and test methods, such as qRT-PCR and immunological assays
- 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
- Detail oriented with strong organization and project management capabilities
- High energy level and a positive outlook coupled with the requisite "can do" attitude
- 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. Ability to quickly adapt to a rapidly changing environment and demands
- Demonstrated computer skills; experience using MS Office and other data analysis software and other related applications.

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