Scientist, Protein Chemistry/Molecular Engineering
Job Code 320TL

Description

Fate Therapeutics is currently seeking a talented and motivated individual with expertise in protein chemistry and molecular biology to join a multidisciplinary team dedicated to discovery and productization of novel off-the-shelf cell-based immunotherapies. Initially the candidate will perform production and functional assessment of research-grade recombinant proteins and guide RNAs to support Fate's gene editing platform and preclinical pipelines. The position will evolve to include establishment of qualified protocols for expression, purification, and analytical assays for protein and RNA batches used in the manufacturing process of genetically engineered induced pluripotent stem cells (iPSCs). Candidate is highly desired to master the entire process of production of recombinant proteins and RNAs and to independently design and deliver high quality results to meet Fate's aggressive timelines. This is a full-time position that reports to the Director, Molecular Engineering and is located at the company's corporate headquarters in San Diego.

Responsibilities:

- Design and generate constructs for expression of recombinant proteins using standard cloning techniques including ligation and assembly
- Complete protein expression and purification from bacterial/mammalian culture using FPLC-based chromatography
- Design strategies and produce guide RNAs using desirable technologies
- Establish standardized methods and protocols for analytical assessment of protein and RNA batches
- Design and perform biochemical and cell-based functional assessment of purified proteins
- Develop and execute experimental plans in timelines to meet program and corporate research objectives
- Communicate research and development findings in cross-disciplinary team meetings as well as with external partners
- Record detailed experimental procedures in laboratory notebooks and controlled documents

Qualifications

- Ph.D. degree with minimum of 2 years relevant experience in a laboratory; industry experience, specifically protein purification and analytical assessment preferred.
- Extensive experience in protein biochemistry techniques, including FPLC-based chromatography, SDS-PAGE, Western blot, analytical HPLC and preferably mass spectrometry and aggregation assessments.
- Extensive experience in molecular cloning, vector construction, transformation, transfection, and transgene expression.
- Experience in oligonucleotide production (IVT, chemical synthesis) and related analytical methods (GE, LC-MS)
- Experience in gene editing technologies is preferred, including guide RNA design and genomic cleavage assays.

- Experience in working with cGMP compliant/quality controlled procedures is preferred.
- Demonstrated success in leading and working in a cross-functional team environment.
- Comfortable in a fast-paced small company environment and able to adjust workload based upon changing priorities.
- Excellent creativity, technical decision-making, and trouble shooting skills.
- Excellent communication and presentation skills.

Working Conditions and Physical Requirements

- Will require working with blood and cell lines of human and animal origin
- Will require working with hazardous materials
- 100% on-site work at corporate headquarters in San Diego, CA
- Occasional evening and weekend work will be required

The preceding job description indicates the general nature and level of work performed by employees within this classification. Additional and incidental duties related to the primary duties may be required from time to time.

For consideration send cover letter and curriculum vitae to: careers@fatetherapeutics.com and reference job 320TL.

About Fate Therapeutics, Inc.

Fate Therapeutics is a clinical-stage biopharmaceutical company dedicated to the development of first-in-class cellular immunotherapies for cancer and immune disorders. The Company has established a leadership position in the clinical development and manufacture of universal, off-the-shelf cell products using its proprietary induced pluripotent stem cell (iPSC) product platform. The Company's immuno-oncology product candidates include natural killer (NK) cell and T-cell cancer immunotherapies, which are designed to synergize with well-established cancer therapies, including immune checkpoint inhibitors and monoclonal antibodies, and to target tumor-associated antigens with chimeric antigen receptors (CARs). The Company's immuno-regulatory product candidates include ProTmune™, a pharmacologically modulated, donor cell graft that is currently being evaluated in a Phase 2 clinical trial for the prevention of graft-versus-host disease, and a myeloid-derived suppressor cell immunotherapy for promoting immune tolerance in patients with immune disorders. Fate Therapeutics is headquartered in San Diego, CA. For more information, please visit www.fatetherapeutics.com.