



**Scientist, Molecular Engineering
Job Code 585AT**

Description

Fate Therapeutics is currently seeking a talented and highly motivated individual with a strong molecular and cell biology background to join a multidisciplinary team dedicated to the discovery of novel cellular therapeutics for the treatment of hematological disorders and solid tumors. The candidate will be responsible for the design, optimization, and screening of chimeric antigen receptor (CAR) constructs and generation of multiple genetically modified cell types including induced pluripotent stem cell (iPSC) lines used for the development of off-the-shelf cell therapy products. This position will evaluate and analyze the binding properties of novel CAR constructs for use in Fate's off-the-shelf iPSC derived immune cell platform. The candidate must demonstrate knowledge of industry standard molecular and cell biology workflows, understanding of antigen recognition in the context of antibody and CAR, and aim to establish efficient processes. The successful candidate must be detail oriented with excellent oral and written communication skills and can successfully collaborate with internal research teams and external partners. The position will require innovative thinking, strong independent and collaborative research abilities, and effective communication of results. This is a full-time, bench-level position in Molecular Engineering and is located at the Company's corporate headquarters in San Diego, California.

Responsibilities:

- Provide scientific and technical support to evaluate and advance candidate CAR designs.
- Evaluate and improve binding capacity of CAR antigen recognition domains.
- Design and generate constructs, lentivirus, and cell line tools.
- Establish optimized screening workflows and protocols for evaluation of candidate CARs.
- Develop and execute experimental plans to collaborate with other teams and to meet program objectives.
- Communicate research and development findings in cross-disciplinary team meetings as well as with external partners.

Qualifications

- PhD in Molecular Biology, Biochemistry, or related fields with 2 years Industry experience highly preferred.
- Extensive experience in molecular cloning, vector construction, lentivirus production/transduction, and transgene expression.
- Demonstrated hands-on experience of molecular biology techniques (Assembly, Restriction Digest, PCR, qPCR, ddPCR, DNA/RNA purification).
- Experience with characterization of target antigen binders, including specificity, affinity, and epitope binning.
- Antibody and protein characterization and assay development (ELISA, cell binding, Biacore/Octet, HPLC, SDS-PAGE) is preferred.
- Protein expression in mammalian systems (CHO or 293) and protein purification (FPLC, protein A, affinity column) experience is a plus.
- Extensive experience in cell culture and assay development (primary and tumor cell culture, transfection, viral transduction, multi-color flow cytometry, FACS, reporter assay).



- Experience with gene editing technologies including gRNA design, donor template building, and knockin analysis is a plus.
- Experience with CAR design, iPSCs, T and NK cells is preferred.
- Comfortable in a fast-paced environment and able to adjust workload based upon changing priorities.
- Ability to design, optimize, and perform experiments in a high-throughput manner is a plus.
- Demonstrated success in working in a cross-functional team environment.
- Excellent organizational skills with record keeping abilities.

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 and research facilities 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 585AT.

About Fate Therapeutics, Inc.

Fate Therapeutics is a clinical-stage biopharmaceutical company dedicated to the development of first-in-class cellular immunotherapies for patients with cancer. 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 pipeline includes off-the-shelf, iPSC-derived natural killer (NK) cell and T-cell product candidates, which are designed to synergize with well-established cancer therapies, including immune checkpoint inhibitors and monoclonal antibodies, and to target tumor-associated antigens using chimeric antigen receptors (CARs). Fate Therapeutics is headquartered in San Diego, CA. For more information, please visit www.fatetherapeutics.com.