



**Associate Scientist, Genome Biology
Job Code 187HF**

Description

Fate Therapeutics is seeking a highly motivated and innovative research professional with extensive experience in developing Next Generation Sequencing (NGS)-based assays to join our Genomics NGS team. The successful candidate will be a key member of the Genomics NGS team and support the development of genomic assays to fully characterize Fate's novel induced pluripotent stem cell (iPSC) - derived cellular therapy products and Fate's clinical patient samples from our current and future clinical trials. The candidate will be a key contributor within integrated and multidisciplinary teams solving complex problems, paving the way for precision development of the next generation cell-based immunotherapies in oncology and autoimmune diseases. The successful candidate will have extensive knowledge and technical experience with NGS and real-time PCR related methodologies as well as a strong background in the associated analytical and bioinformatics knowledge. The major responsibility of this position is to apply state-of-the-art genetic methods (RNAseq, WGS, WES, CNV, off-target evaluation for gene editing technologies, and epigenetic characterizations including ATAC-seq, Methyl-seq) to fully characterize and understand Fate's novel iPSC-derived cellular therapy product candidates. Experience working in a clinical diagnostic environment is strongly preferred but not required. This is a full-time position reporting to the Sr. Scientist of Genome Biology and it is located at our corporate headquarters in San Diego, California.

Responsibilities:

- Plan, design, and execute experiments in the laboratory with general guidance from direct supervisor
- Extract genomic DNA and RNA from different types of samples and perform sample QC
- Perform NGS library construction for RNAseq, WGS (whole genome sequencing), WES (whole exome sequencing), amplicon-seq, and epigenetic sequencing (ATAC-seq, Methyl-seq)
- Write SOPs and reports; keep a good laboratory notebook
- Operate Illumina NGS instruments, and perform technical quality review of NGS data
- Maintain Illumina NGS instruments
- Train and mentor junior researchers
- Work closely with the bioinformatic scientists to help develop, test, and support NGS data analysis tools and pipelines
- Prepare technical presentations for updating supervisor, team members, and internal researchers as appropriate
- Provide verbal progress reports in both formal and informal settings
- Keep a strong focus on quality and pay close attention to details
- Perform experimental trouble shooting as needed
- Perform other duties as needed



Qualifications

- BS/MS in molecular biology or related fields
- Minimum 5+ years of bench R&D experience
- Solid understanding of Molecular Biology and Genetics, particularly NGS technologies
- General knowledge in cutting edge gene editing technologies
- Hands-on experience in various NGS library construction methods (RNAseq, WGS, WES, targeted DNA-seq, ATAC-seq, Methyl-seq, etc.)
- Hands-on experience in various standard PCR technologies (qPCR, RT-qPCR, digital PCR, etc.)
- Extensive experience with Illumina NGS instruments
- Experience with NGS data technical quality check and visualization with IGV software
- Experience working closely with bioinformatics functions including data analysis methods and pipeline development
- Demonstrated capability of developing novel molecular assays, including NGS, RT-PCR
- Demonstrated ability of keeping a strong focus on quality and paying close attention to details
- Possess superior critical thinking and problem-solving skills
- Excellent communication and presentation skills with an emphasis on the ability to interpret and communicate complex genetic/molecular data to different audiences
- Experience working in a clinical diagnostic environment is strong preferred
- Industrial experience is desired
- Ability to work effectively in a highly-collaborative, multi-disciplinary environment
- Comfortable in a fast-paced small company environment and able to adjust workload based upon changing priorities

Working Conditions and Physical Requirements

- Will require working with cells and cell lines of human and/or animal origin
- Will require working with hazardous materials
- May require occasional evening and weekend work
- 100% onsite work at Company's headquarters in San Diego

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 resume to: careers@fatetherapeutics.com and reference job 187HF.

About Fate Therapeutics, Inc.

Fate Therapeutics is a clinical-stage biopharmaceutical company dedicated to the development of programmed cellular immunotherapies for cancer and immune



disorders. The Company's hematopoietic cell therapy pipeline is comprised of NK- and T-cell immuno-oncology programs, including off-the-shelf product candidates derived from engineered induced pluripotent cell lines, and immuno-regulatory programs, including product candidates to prevent life-threatening complications in patients undergoing hematopoietic cell transplantation and to promote immune tolerance in patients with autoimmune disease. Its adoptive cell therapy programs are based on the Company's novel *ex vivo* cell programming approach, which it applies to modulate the therapeutic function and direct the fate of immune cells. Fate Therapeutics is headquartered in San Diego, CA. For more information, please visit www.fatetherapeutics.com.