



**Scientist, Genome Editing and Next Generation Sequencing  
Job Code 562PFT**

**Description**

Fate Therapeutics is currently seeking a talented and motivated individual with expertise in 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 genome editing and next generation sequencing (NGS) to support Fate's gene editing platform and preclinical pipelines. The position will evolve to include establishment of genomic analysis tools for NGS assays used in the manufacturing process and characterization of genetically engineered induced pluripotent stem cells (iPSCs). Candidate is highly desired to master molecular biology techniques and to independently design and deliver high quality results to meet Fate's aggressive timelines. This is a full-time position reporting to a Senior Scientist and is located at the company's corporate headquarters and research facilities in San Diego, California.

**Responsibilities:**

- Design and perform genome editing experiments, with the aim of evaluating and optimizing the on-target efficiency while reducing the off-target activities
- Design and prepare for NGS assays independently
- Develop cutting edge NGS technology, identify creative solutions to problems and invent new methodologies and workflows to improve sequencing technologies
- Perform characterization including off-target analysis of engineered iPSC master cell banks
- Establish and standardize methods and protocols for bioinformatical analysis of NGS data
- 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 in molecular biology or related fields with bioinformatics component; relevant experience in industrial laboratories is desirable.
- Expertise in NGS and library prep methodologies is required.
- Prior experience in CRISPR/Cas genome editing, off-target analysis and application of deep sequencing strategies in genomic characterization and investigation is preferred.
- Experience in bioinformatics, NGS data analysis, and scientific programming is preferable.
- Desire to understand the fundamental aspect of technologies, and the ability to identify creative solutions to overcome current limitations.
- Good understanding of molecular biology techniques and troubleshooting thereof. Proven ability to think innovatively toward solving problems effectively and efficiently
- Ability to design, implement, analyze, and present experiments to demonstrate feasibility of new methods and efficiently move products through pipeline
- Comfortable in a fast-paced environment and able to adjust workload based upon changing priorities.
- 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 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](mailto:careers@fatetherapeutics.com) and reference job 562PFT.

**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](http://www.fatetherapeutics.com).