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Scientist, Bioinformatics

Company Overview

Strand Therapeutics is an early-stage biotechnology company utilizing synthetic biology to genetically program mRNA to deliver truly revolutionary immunotherapies.

Building on the idea of creating smart therapies that are capable of making sophisticated decisions, Strand was started by biological engineers working together at MIT who were seeking to apply the concept of the emerging field of mRNA therapeutics. This collaboration led them to build their own mRNA “programming language,” creating the world’s first platform for mRNA smart therapies.

The founders and scientific advisors of Strand Therapeutics are made up of well-known and highly regarded individuals in both academia and the biotech industry. We are located in the Cambridgeport neighborhood of Cambridge, MA.

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Job Summary

Strand is looking to build a team that understands the value of working at a start-up. Joining the company now means having vast opportunities to learn and grow including having the exposure to all aspects of building a company. We are looking for people who have the enthusiasm and motivation to be a highly contributing member of a small team. This opportunity will offer the employee the ability to work closely with the founding team, as well as to form close partnerships with team members during the development and formation of the company.

We are looking for a Scientist, Bioinformatics to join the Computational Biology team at Strand Therapeutics. The incoming candidate will report to the head of the computational biology team and work closely with the drug discovery and platform teams to design experiments and analyze data from a variety of sources, including next gen sequencing, flow cytometry, and imaging. They will work with Strand’s software developers and take a key role in building scalable data processing pipelines. The candidate will be expected to work in an innovative, fast-paced, cross-collaborative biotech environment.

Primary Responsibilities

- Design, build, validate, and deploy novel computational tools for analyzing and optimizing mRNA therapeutics.
- Analyze datasets from RNA-seq and next gen sequencing technologies, flow cytometry, and imaging experiments. Refine and automate data handling pipelines and analysis workflows.

- Develop and apply statistical and machine learning-based approaches to integrate experimental data and systems biology models.
- Assist in managing appropriate computational infrastructure.
- Engage with cross-functional project teams and external collaborators to support project planning and execution, provide expert advice, and drive use of data-driven biological modeling.

Qualifications:

- A PhD in Bioinformatics, Bioengineering, Computer Science, Statistics, Data Science, or a related discipline, or a MS with 5 years of relevant experience, is required
- Demonstrated experience with large, high-dimensional biological datasets
- Specific experience with bulk and single cell RNA-seq is highly desired. Experience with integrating multi-omics (transcriptomics, proteomics, genomics) is desired as well
- Working knowledge of common bioinformatics databases and tools
- Proficiency in statistical methods and machine learning, including common software tools
- Proficiency in programming languages (Python, R, Java, SQL) and Unix environments (Linux, shell scripting)
- Experience with cloud computing (AWS) and/or high-performance computing
- Strong collaboration and interpersonal skills. Ability to present detailed bioinformatics, data science, and computational concepts to a diverse audience.
- Ability to multi-task and prioritize to meet important deadlines

Strand offers a fast-paced, entrepreneurial, team-focused work environment. We also offer a top-notch benefits package (health, dental, life, vacation, 401k, and commuter) and work/life integration. Being part of the Strand team allows you to become part of a small team that supports professional development while working together to meet the company goals.

Strand Therapeutics is an equal opportunity employer. We do not discriminate on the basis of race, color, gender, gender identity, sexual orientation, age, religion, national or ethnic origin, disability, protected veteran status or any other basis protected by applicable law. Strand does not accept unsolicited resumes from any source other than directly from candidates.

Job Type: Full-time

Salary: Commensurate with role and experience