



BIOINFORMATICS ENGINEER

TwinStrand Biosciences, a Seattle-based genomics company focused on ultra-high accuracy DNA sequencing, seeks a qualified individual for the position of *Bioinformatics Engineer*. As a *Bioinformatics Engineer*, you will work within a team of bioinformatics scientists and software engineering consultants to play a pivotal role in solving important problems in cancer research through genomics pipeline development and deployment.

You will draft and co-engineer an enterprise customer-facing cloud application that will become the core analytics platform for current and future product lines at TwinStrand. Our cloud application will enable worldwide researchers the most accurate insight into their DNA samples. Tandem to developing a customer-facing cloud application, you will engineer novel algorithms as command line tools to be used by scientists for further investigating scientific phenomena.

As a part of the software development team, you will establish and enforce development best practices at TwinStrand. A process-oriented individual with exceptional attention to detail will excel in the role of *Bioinformatics Engineer*. Familiarity with agile programming methods such as test-driven development, collaborative programming, version control flow, and code quality standards is ideal, however, we are eager to support efforts to round out any skills that have not been previously acquired!

We encourage all employees at TwinStrand to jump in and help with whatever is needed to get the job done. At TwinStrand, you will learn many skills beyond those required for the core role of *Bioinformatics Engineer* by working on projects of NGS analysis, UI development, process automation, and even database architecture.

You are the ideal *Bioinformatics Engineer* if you love working within a high-performance team in a collaborative environment to deliver high-quality solutions of bioinformatics processing. We need your expertise in bringing our Duplex Sequencing toolkits into a cloud application, so we can continue to pioneer solutions for human health through scientific discovery.

SPECIFIC DUTIES INCLUDE:

- Deployment of a performant, customer-facing cloud pipeline for automated processing of Duplex Sequencing experiments
- Maintenance of and improvements to existing internal genomics pipelines
- Engineering of on-site applications and information systems
- Management opportunity is available

REQUIREMENTS:

- B.S. in computer science, engineering, or related field. 5+ years of experience
- Ability to work well within a team, in a fast-paced environment
- Expert ability in at least one programming language, and proficiency in others
- Experience in developing genomics pipelines and containerizing workflows
- High competency with cloud development and deployment
- High competency with version control systems like Git
- Effective communication skills

PREFERRED EXPERIENCE:

- M.Sc. or Ph.D. in computer science, engineering, or related field
- Experience with Amazon Web Services like Batch, EC2, and S3
- Experience with continuous integration and deployment
- Experience with API query language
- Experience with DevOps
- Experience with analytics and big data systems
- Biotechnology experience preferred, startup company a bonus
- Familiarity with high-throughput sequencing libraries and short-read sequencing

About TwinStrand Biosciences

We are a vibrant young company committed to applying a powerful new genomic technology across disciplines to improve human health and accelerate scientific discovery. We are a spinout from the University of Washington and our mission is to commercially develop and deliver the unprecedented accuracy of Duplex Sequencing™ for applications in medicine and life sciences where it can do the greatest good for the greatest number of people.

Our business is multifaceted and encompasses internal development projects, external collaborations and empowering of partner organizations. Our mission is strongly rooted in academic principles of responsible citizenship within the broader scientific community, yet executed with the nimbleness of a startup, such that research can be rapidly translated into products that benefit many. To the greatest extent possible, we strive for open sharing of knowledge and discovery through publication.

At TwinStrand we put a premium on creativity, dynamic thinking and a rigorous scientific approach. You will be challenged to push the boundaries of your knowledge, skills and comfort zone and to take ownership of your area of specialty. We expect all team members to take on some form of leadership role over time and mentor new team members as we continue to expand. We want every member of our community to come to work excited each day and able to take pride in the high-quality science to improve human health that they are contributing to.

Our new state-of-the-art NGS laboratory is ideally situated on the Downtown Seattle waterfront overlooking Puget Sound and our genomics team is growing quickly.

Interested applicants should send a resume and cover letter to:

careers@twinstrandbio.com

Please be prepared to provide a relevant code sample upon request.

TwinStrand Biosciences is an Equal Opportunity Employer