



BIOINFORMATICS SCIENTIST, NGS R+D

POSITION OVERVIEW

TwinStrand is seeking a highly motivated and talented individual to join our Seattle-based team as a bioinformatics scientist who will design, refine and implement analytical methods that support diverse applications of our ultra-high accuracy Duplex Sequencing technology. This candidate will be challenged to meet a substantial breadth of computational needs in a young and rapidly growing genomics company and afforded significant autonomy in developing methods for achieving these. The position will primarily support the custom experimental design and analysis of data from joint studies with industry and academic partners, using a diverse skill set in programming, genome sciences and statistical analysis. This individual will also interface with our pipeline development team and assist with testing and adapting analytics to internal and external research and development projects. In both roles, a creative mindset, proven abilities in a team environment and excellent data presentation skills are a must.

RESPONSIBILITIES

- Assist with experimental design and planning with regard to anticipated data needs for external customers and internal development projects.
- Manage analysis, interpretation and graphical representation of project data.
- Translate findings into recommendations for improved products and experimental designs.
- Deliver regular progress reports and updates on schedules, plans and data readiness.
- Anticipate and recognize informatics challenges and make recommendations for solutions and allocation of resources needed to meet goals.
- Maintain awareness of relevant literature, attend national meetings and keep up on new genomics analysis techniques and approaches.
- Work with clients and collaborators to prepare conference abstracts, manuscripts and informatic aspects of grant and patent applications.
- Assist with the interface between software engineers and R+D team help test and recommend standardized workflow metrics and data output format.

PREFERRED BACKGROUND AND SKILLS

- PhD or MS with 3+ years relevant experience in bioinformatics, computational genomics or related field.
- Proven expertise in at least one programming language. Python and/or Java/Scala preferred.
- Familiarity and experience with current landscape of bioinformatics tools in Next-Generation Sequencing and standard NGS data formats.
- Experience querying relevant databases (TCGA, 1,000 genomes, COSMIC, ANNOVAR, etc.)
- Experience with code documentation and version control practices and tools (git.)
- Experience in quantitative analysis and presentation of large datasets.
- Working knowledge of basic statistical methods, their application to genomics and preferably familiarity with a statistical package (R, Matlab.)

HIGHLY QUALIFIED CANDIDATES WILL POSSESS:

- Desire to work in a fast-paced startup environment.
- Demonstrated high-quality scientific programming skills applied to complex biological topics.
- Proven history of creative problem solving, resourcefulness and innovation.
- A record of scientific achievement (strong publication record, history of success in scientific grant writing, history of invited presentations and/or relevant patent filings).
- Prior bioinformatics experience in the biotechnology or pharmaceutical industry setting is ideal.
- Internal drive to dig deeply through various data types to seek out answers, gain insights from unexpected findings and question assumptions.
- Ability to take on challenges and work independently with minimal supervision, yet comfortable asking for help when needed.
- Ability to handle multiple projects and dynamically prioritize efforts based on changing needs.
- Strong interpersonal skills and a history of success working in cross-functional teams.
- Working knowledge of cloud environments, (AWS), containerization technologies (Docker), pipeline development and data fidelity and information security best-practices.

ABOUT TWINSTRAND

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 fast.

Interested applicants should send a resume and cover letter to:

Lindsey Williams PhD, Director of Assay Development

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