
Scientist / Senior Scientist – Data Sciences

Glympse Bio is developing an innovative new paradigm to enable noninvasive and predictive monitoring of important human diseases. The company's technology uses precisely bioengineered sensors that interrogate the body for the presence of disease activity, and then carry the message to a patient's urine for analysis. Glympse Bio's platform technology was developed at the Koch Institute for Integrative Cancer Research at MIT by Dr. Gabe Kwong and Dr. Sangeeta Bhatia. This sensor paradigm has been published in leading scientific journals such as *Nature Biotechnology* and the *Proceedings of the National Academy of Sciences*, and broadly covered by the media including The Economist, BBC News, the Boston Globe, TED, and TEDMED.

Glympse Bio recently closed a \$22 million Series A financing co-led by Polaris Partners and Arch Ventures to expand its team, initiate clinical studies, and grow its pipeline. The company's lead program for the diagnosis and monitoring of Non-Alcoholic Steatohepatitis (NASH) is targeted to enter the clinic in early 2019, with multiple follow-on programs in the areas of cancer and infectious disease. Glympse Bio is a fast-paced, high-energy startup fueled by the vision of transforming disease diagnosis and monitoring of human health worldwide.

Glympse Bio is based at LabCentral, a life sciences laboratory incubator in Kendall Square in the heart of the innovation sector in Cambridge, MA. It is in close proximity to prestigious institutions like MIT, Harvard, Broad Institute, Whitehead Institute, and Draper Laboratory. LabCentral is home to 60 startups comprising 200 scientists and entrepreneurs, and offers first-class facility and personnel support for early-stage companies. LabCentral provides an intellectually stimulating and energetic environment to conduct innovative research.

Position Description

Glympse Bio is looking for an exceptional data scientist to work on a variety of complex bioinformatics projects centered around target identification, signal optimization, and development of classification models that incorporate data from our disease activity measurements. This role will play a key role in our discovery and development efforts for non-invasive, activity-based sensors in the areas of fibrotic disease and cancer capable of providing physicians with accurate and relevant data to optimize the management and care of their patients. This is an exciting opportunity to be part of a cutting-edge startup with a world-class team.

Responsibilities

Your responsibilities will include the following:

- Develop a robust platform for analyzing complex data sets to support the design and development of activity-based sensors
- Partner closely with our biology discovery team to apply and/or develop data-mining techniques for target identification and validation from both human and animal datasets (primarily RNA expression, enzymatic cleavage assays, and mass spectrometry)

- Build predictive models using machine learning and statistical approaches to translate multiplexed disease activity measurements into clinically-actionable disease metrics
- Present findings to support internal R&D, external collaborations, and partnerships

Qualifications

- Ph.D. in Computational Biology, Statistics, Bioinformatics, or equivalent (B.S./M.S. level candidates with 2-5 of experience will also be considered)
- Proficiency in programming and computational analysis of biological data cohorts using R, Python, or MATLAB
- Basic understanding of cellular and molecular biology (knowledge of enzyme biology a plus)
- Experience with mining public data sets (e.g., TCGA, GTEx)
- Ability to apply and develop tools to integrate diverse data sets to guide internal programs as well as support external collaborations
- Ability to serve as internal subject matter expert on bioinformatics as well as identifying collaborators to complement internal bioinformatics efforts
- Familiarity with machine-learning methods including SVM, tree methods, logistic regression and LASSO essential
- Familiarity with enzyme kinetics and simulation of large, coupled differential equations essential
- Excellent oral and written communication skills
- Experience in a biotech/pharma industry setting highly preferred

How to apply

Applications should include a curriculum vitae and cover letter to Glympse Bio at jobs@glympsebio.com. All questions and inquiries should be directed to the same email address. Glympse Bio is an Equal Opportunity Employer.