



35 Gatehouse Drive, Waltham MA 02451

Scientist II, Computational Biology

Skyhawk Therapeutics is seeking a Scientist II in Computational Biology to join our growing Bioinformatics-Machine Learning team in Waltham, MA. In this role you will be responsible for innovative programming and building analysis pipelines/prediction tools of RNA elements/structures bound by small molecules or proteins for novel therapeutics that rely on RNA splicing. Applicants should be self-starters and excited about the opportunity to operate in a multi-faceted bioinformatics-ML function within a growing, fast-paced company.

About Skyhawk

Skyhawk is committed to discovering, developing, and commercializing small molecule therapeutics that correct RNA splicing. We use our novel SkySTAR® platform (Skyhawk Small molecule Therapeutics for Alternative splicing of RNA) to develop drug candidates directed to targets for some of the world's most intractable diseases including cancer, neurological conditions, and other "undruggable" targets against a wide range of conditions.

Role and Responsibilities (include, but are not limited to):

- Effectively implement algorithms and code bioinformatics software and pipelines to analyze and visualize various types of next/third-generation sequencing data used in RNA splicing biology.
- Characterize the mechanism of action for small molecule splicing modulators by identifying and predicting small molecule binding RNA sequences/structures or proteins.
- Collaborate with machine learning group to build prediction tools for druggable RNA targets. Contribute to the identification of novel therapeutic targets.
- Interact with molecular and structural biology groups to account for their insights and needs.
- Perform data analysis and prediction, prepare reports and present scientific results with clear conclusions and recommendations.

Education/Skills/Experience Requirements:

- Ph.D. in Computational Biology, Bioinformatics, Computer Science, or a related field, with 2-4 year industrial/postdoc experience. Background in RNA biology is preferred.
- Proficient in Python, R, Perl or Bash programming. Hands-on experience with version control (e.g., Git) and cloud technologies (e.g., AWS or GCP).
- Direct experience with mutational profiling analysis, such as in SHAPE-MaP, DMS-MaP, CLIP-seq, and RNA editing.
- Proficient in data analysis including but not limited to massive parallel reporter assay, CRISPR/shRNA screen, RNA structure profiling, ribosome profiling, short and long-read RNA-seq for splicing.
- Track record of prediction software, databases, publications, and analysis pipelines for RNA binding protein motifs and RNA structures.
- Experience with machine learning methods in predicting RBP binding site and RNA structure is a plus.
- Ability to manage multiple projects simultaneously and manage priorities flexibly.
- Excellent written and verbal communication skills and organizational and documentation skills
- Relaxed and fun attitude that helps good culture building.

To Apply: Please send resume and cover letter to platform.jobs@skyhawktx.com

A COVER LETTER IS REQUIRED. Please explain why this job is of interest to you. Please detail your strengths and weaknesses as they pertain to the requirements and responsibilities of this position.