

## Position: Computational Drug and Target Discoverer

**Unravel Biosciences** is a pre-clinical stage therapeutic discovery company spun out of the Wyss Institute at Harvard University with a mission to develop effective new treatments to improve the lives of CNS patients with unmet need. We integrate computational drug prediction with on-demand animal models and cutting-edge screening hardware to rapidly connect behavioral and cognitive symptoms to novel therapeutic targets and treatments.

**We are looking for an experienced computational biologist** to lead our computational drug prediction platform, work within a dynamic, fast-paced team, and leverage the power of integrating computational and wet lab approaches into a uniquely effective discovery engine. You will contribute to discoveries across our neurodevelopmental, degenerative and mental health programs, have the opportunity to influence our strategies and priorities, develop our growing toolkit of cutting-edge technologies spanning many scientific and engineering disciplines, and a chance to bring discoveries into the clinic.

### **Responsibilities:**

- Integrate multi-omics and experimental datasets to predict and validate drugs, targets, and biomarkers.
- Evaluate datasets and biomarkers for patient stratification and responder/non-responder analysis.
- Apply or build tools for cross-functional data integration and visualization.
- Refine our statistical algorithms and develop novel analytical ideas.
- Develop effective workflow to accelerate discoveries for rare neurological disorders.
- Develop an optimized cloud-based computation environment.
- Assist in recruiting and mentoring the computational biology team as the company grows.
- Opportunity to participate in business development strategy and solutions.

### **Qualifications:**

- Strong background in computational biology, including RNAseq analysis, acquired through 6+ years of academic, post-academic, or industry experience.
- Related experience in bioinformatics, biophysics, computer sciences, genomics, and mathematics will also be considered.
- Deep knowledge of Bayesian and frequentist statistics, network analysis, and inference.
- Basic understanding of neurological, inflammation, myopathy, and metabolic disorders preferred.
- Proficient with Python and AWS data analysis, data visualization, and data management. Other scripting and statistical languages, database management and cloud-based environment will be considered.
- API development skills a plus.

- Analysis of single-cell sequencing, spatial transcriptomics, epigenetics, proteomics, and functional genomics image analysis/computer vision is a plus.
- Ability to work and communicate effectively across disciplines, including biologists, engineers, and clinicians.

Unravel is looking for the right candidate. We will consider a range of experience breadth and depth and adapt the role accordingly. We are located in Boston, MA but will consider remote employment for exceptional candidates. We offer competitive compensation and equity, flexible PTO, a fun, energetic, and honest team environment, and an opportunity to make meaningful contributions.

**Interested?** [contact@unravel.bio](mailto:contact@unravel.bio)