

ML / Biological Design Lead

Manifold Bio is a well-funded, VC-backed biotech startup with a mission to invent next-generation technologies to design drugs that will improve and save patient lives. Our founders come from George Church's lab at Harvard Medical School and are innovators in leveraging DNA technologies to engineer biological systems. We are located in the Pagliuca Harvard Life Lab, a well-equipped modern lab space with a rich community of companies building cutting-edge technologies.

Position

We are seeking an experienced ML/Design lead to join a creative, fast-paced, and collaborative team. We are building one of the fastest data creation engines in the industry, and are looking for someone who is excited about turning insights from the last experiment into the design for the next one at a breathtaking pace. Working closely with the CSO and experimental team, you'll help design DNA libraries and derive insights from multiplexed experiment workflows. You'll contribute to advancing our multiplexed protein quantitation platform and the creation and iteration of novel protein therapeutic drugs. The ideal candidate will have deep technical expertise in machine learning in a biological domain and experience designing experiments at library-scale.

Responsibilities

- Own machine learning and design to advance measurement technologies and create novel drug designs
- Work closely with experimental teams to design experiments and communicate results
- Build NGS analysis pipelines and identify patterns in the mapping from sequence to function
- Design novel libraries of protein therapeutic designs to be experimentally tested
- Build out data processing infrastructure in a useable, scalable manner
- Lay the foundation for growing our ML/Design team over time

Required Qualifications

- 5+ years of academic and/or industry experience applying machine learning in a biological context
- Demonstrated knowledge of best practices in machine learning and building data infrastructure
- Excellent handle on python, jupyter, and git best practices
- Collaborative, curious, flexible, and strong communication skills
- A deep passion for science and developing new methods

Why you might be a good fit

- Experience predicting structure and/or function directly from sequence data
- Experience working in the wet lab or directly with wet lab experimental scientists
- Strong understanding of statistics fundamentals and machine learning methods
- Predisposition to start with simple, interpretable models and progress to cutting-edge, complex models
- Think from first principles about data distributions (and designing experiments to obtain them)
- Experience leveraging cloud infrastructure (we use AWS)

If you're excited to build a platform that combines these technologies, please reach out to careers@manifold.bio.

We value different experiences and different ways of thinking and believe the most talented teams are built by bringing together people of diverse cultures, genders, and backgrounds.