



## Scientist / Sr. Scientist: Antibody Engineering

**Manifold Bio is a biotech company pursuing a pipeline of protein therapeutics using novel molecular measurement technologies and library-guided protein engineering.** Our drug discovery engine is differentiated by massively parallel screening *in vivo* from the beginning of our discovery process. This unique platform is powered by a proprietary protein barcoding technology that allows multiplexed protein quantitation at unprecedented scale and sensitivity. We combine this and other high-throughput protein engineering approaches with computational design to create antibody-like drugs and other biologics. Our world-class team of protein engineers, biologists, and computational scientists are working together to aim the platform at therapeutic opportunities where precise targeting is the key to overcoming clinical challenges

### Position

**Manifold Bio is seeking an enthusiastic, creative scientist to join our growing team in our mission of multiplexed, *in vivo* drug discovery.** The ideal candidate will have extensive experience in protein engineering and protein therapeutic design. This is a unique opportunity to own impactful projects and play a big role on a small team looking to redefine current drug discovery paradigms. You will play an integral part in every step of our drug programs work, from designing initial antibody discovery campaigns to reformatting hits, advancing candidates through screening funnels, and nominating candidates for clinical development. In particular, you will make use of high-throughput and library methods both *in vitro* and, uniquely, *in vivo* using Manifold's proprietary protein barcoding technology.

You will work closely with a collaborative, interdisciplinary team of scientists to design, execute, and analyze complex experiments in a fast-paced environment. There will be many opportunities for creativity, innovation, and ownership in this hands-on role leveraging our cutting edge platform to initiate and advance programs. Together, we'll continue to build a transformational company based on the original vision of [massively increasing the throughput of testing of protein therapeutic designs](#) to fundamentally change the current paradigm of drug development.

### Responsibilities

- Independently design, plan and execute experiments to advance drug candidates and programs
- Assume ownership of protein engineering efforts for at least one drug program
- Build on current binder discovery and screening pipelines to increase throughput and efficiency
- Balance responsibilities across initiating and advancing programs and pursuing long-term innovation projects
- Contribute to lead validation experiments and prepare preclinical data packages
- Stay up to speed on cutting edge research and industry standards for protein therapeutics
- Maintain data integrity and effectively communicate findings to the team

### Required Qualifications

- PhD in protein biochemistry, molecular biology, cell biology, bioengineering or similar; or B.S./M.S. with at least 4 years experience
- Expertise in protein biochemistry, especially purification and characterization techniques
- Hands on expertise in library-based protein engineering with an empirical approach
- Experience troubleshooting difficult scientific problems
- Collaborative, curious, and flexible, with a genuine passion for innovative science and developing medicines

### Preferred Qualifications



# ManifoldBio

201 Brookline Ave Boston, MA 02215

<https://manifold.bio> | [careers@manifold.bio](mailto:careers@manifold.bio)

- PhD with 3+ years experience in pharma/biotech industry working on protein or cell-based drug program(s)
- Expertise in protein engineering in the context of antibody constructs, single-domain antibodies, or similar
- Experience in designing libraries for binder campaigns, epitope selection, choice of format, linker design, avidity engineering, structure-guided engineering, etc.
- Experience with yeast display or other display technologies e.g. phage display, mammalian display or ribosome display
- Experience designing and running high throughput screening assays
- Experience with CAR-T, T-cell engagers, multi-specifics, ADCs, targeted cytokines, or other 'targeted-effector' modalities
- Knowledge of cell biology and cancer biology is a plus

## Why you might be a good fit

- Highly independent, productive, and creative scientist able to confront obstacles to drive projects forward
- Team player with enthusiasm for working closely with a tight-knit team on challenging problems
- Strong oral and written communication to facilitate complex experiments with multiple parties; excellent record keeping
- Forethought, organization, and flexibility to meet deadlines and iterate in a fast-paced environment

**If you're excited to build a platform that combines DNA and protein multiplexing technologies, please reach out to [careers@manifold.bio](mailto: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.*