ManifoldBio

Pagliuca Harvard Life Lab, 127 Western Ave., Boston, MA
https://manifold.bio | careers@manifold.bio

Scientist/Senior Scientist - Protein Engineering / Assay Development

Manifold Bio was founded with the vision to bring in vivo measurement-driven design to biologic discovery. We have created a proprietary protein tracking technology called M-Codes that unlocks protein multiplexing. 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 an interdisciplinary team spanning molecular biology, protein engineering, and computational biology expertise. We are located in the Pagliuca Harvard Life Lab, a well-equipped modern lab space with a rich community of companies inventing the future of biology and medicine.

The Role

You will play a key role in the pursuit of innovations that further expand the scale and capability of Manifold Bio's M-Codes technology. You will work directly with the Head of Barcoding Platform, and apply high-throughput protein engineering and molecular biology principles to advance M-Codes. You will be responsible for the design, construction, and high-throughput screening of complex protein libraries. You'll work with a multidisciplinary team of creative scientists to support the deployment of M-codes for in vivo multiplexed applications. As a key member of our rapidly growing team, you will also contribute to building a culture that embraces scientific excellence and diversity of ideas.

What You'll Do

- Advance the scale, sensitivity and robustness of our M-Code multiplexing technology by combining protein engineering, synthetic library, directed evolution and in vitro display approaches.
- Prioritize problems and improvements and formulate strategies to solve them.
- Work both independently and in collaboration with experimental,computational, and hybrid biologists to design, execute, analyze and interpret experiments.
- Mentor junior scientists in developing skills essential to the execution of rigorous scientific research
- Ensure data generated is documented in a timely and organized fashion, and present ideas and results to colleagues and leadership
- Coordinate and build efficient working relationships with the Protein Sciences and In Vivo Biology teams to support the deployment of M-Codes technologies for screening drug candidates in animal models.

Who You Are

You love to tinker with biological parts and enjoy the challenge of troubleshooting en route to the development of a novel assay. You are passionate about combining both rational design and unbiased approaches in problem solving.

Requirements:

- A proven track record executing high-throughput screens and/or protein/enzyme engineering work.
- Strong technical proficiency in key biochemistry/molecular biology techniques, including: cloning, protein purification and ELISA/Western analysis.
- Hands-on experience in NGS library preparation.
- Strong desire to work collaboratively within a fast-paced and multidisciplinary team environment.
- Detail-oriented with exceptional organizational and communication skills.
- Interest and some experience mentoring junior scientists.
- Exceptionally self-motivated and scientifically curious
- PhD or equivalent experience in Biochemistry, Bioengineering, Molecular Biology or related field.

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Nice to Have:

- 1-3 years Startup/Biotech/Pharma experience in protein engineering or assay development.
- Experience in either directed evolution or phage/yeast/mammalian or related display technologies.
- Experience collaborating with computational scientists.
- Experience working with antibody or antibody-like molecules.

If you're excited to build a platform that will transform drug discovery, 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.