Lead Automation Engineer, High Throughput Biology

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 exceptional Automation Engineer to join our growing team. You will work closely with experimental and computational scientists to automate our current plate-based assays, building out the system from the ground up. At Manifold, many experiments we run are multiplexed, such that each well contains libraries of thousands of molecular variants. You will be responsible for translating assays into an automated format in a manner that preserves or improves the quality of data currently generated. Your efforts will contribute to advancing our multiplexed protein engineering platform M-Design and lead to the creation of novel protein therapeutics. You will be expected to own and independently advance automation projects, and collaborate closely with scientists to do so. You will work closely with our CSO and our other scientists to onboard new capabilities that advance the M-Design platform for data-driven engineering of drugs with desired properties.

Responsibilities

- Work closely with Manifold's scientific teams to design and automate experimental workflows
- Collaborate on designing high-throughput experiments and enabling analysis/interpretation of results.
- Lead troubleshooting efforts, analyze existing workflows, identify bottlenecks, and develop innovative solutions that advance robustness and capacity.
- Collaborate with software engineering teams on building and implementing end-to-end integrated workflows leveraging Manifold's cutting-edge software stack.
- Train users on automated methods and protocols across all platforms.
- Manage multiple experiments, projects, and interactions with supporting functions simultaneously.
- Proactively share your findings with colleagues through high-quality documentation and discussions.

Qualifications

- B.S., M.S., or Ph.D. degree in biology, engineering, or related field.
- 5+ years of experience in lab automation in industrial or academic settings.
- Experience spec'ing, onboarding, programming and operating automated liquid handling systems, experience with Hamilton platforms preferred.
- Experience interfacing with Benchling or similar databases and scripting for LIMS integration.
- Experience with standard molecular/cell biology techniques.
- Preferred experience automating NGS-based processes, bead-based protocols on King Fisher.
- Expertise creating, modifying, and troubleshooting robotics/automation scripts.
- Outstanding written and verbal communication skills, and strong team player.
- A deep passion for science and developing new methods

If you're excited to build a platform that combines these technologies to revolutionize how protein therapeutic discovery happens, please reach out to careers@manifold.bio.

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