



Scientist Automated Microbial Engineering

Location: Durham NC

This scientist will lead efforts in developing and optimizing our high throughput microbial engineering platform from strain design and construction to testing and data analysis. Successful candidates will have previous experience in metabolic engineering, synthetic biology, high throughput screening, lab automation and statistical analysis of large data sets. The successful candidate will be able to quickly learn new concepts that are specific to support our technology and approach.

Responsibilities

- Leadership of lab automation and microbial strain evaluations
- Experimental planning across multiple projects
- Managing and coordinating complex experimental schedules within a broader team
- Maintaining, analyzing, and reporting on data to the larger team, including external stakeholders
- Troubleshooting and improving processes
- Developing key results and data packages for patent applications
- Maintaining safe practices and work environment

Qualifications

We are looking for candidates with a Ph.D. in biochemical or metabolic engineering and/or synthetic biology or a related field, and significant industrial experience in a laboratory setting with significant lab automation. Additional qualifications include:

- Demonstrated experience in statistical analyses, Design of Experiments (DoE), and manipulation of large data sets
- Strong knowledge of Python and/or other programming languages
- Experience with using meta data and databases/LIMS
- Experience with development and statistical validation of automated workflows
- Experience in drafting and revising detailed SOPs and protocols
- Capability to manage multiple work-flows and experiments within a single day
- Ability to effectively work in cross-disciplinary teams
- Must be a self-starter, motivated, scientifically curious, and collaborative
- Flexible schedule including occasional evenings and weekends

Interested parties should sent cover letter and resume to: Michael.lynch@duke.edu

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