

## **Scientist, Metabolic Engineering**

Draths Corporation, located in Lansing MI, is building a next generation chemical company focused on manufacturing biobased materials for use in everyday products via environmentally friendly and economical processes. The technology platform covers the entire benzene value chain, enabling it to manufacture products that are identical to intermediates used to make nylons, plastics, and a host of other materials. Draths is unique in this capability and is different from companies that are manufacturing biofuels or targeting other parts of the carbon-based chemical value chain (e.g., C-2, C-3 materials). Draths is looking for individuals who are committed to changing the way chemicals are made and who are willing to put forth the effort necessary to enable a growing biotech startup to achieve its technical milestones.

### **Job Summary**

The Metabolic Engineer will have industrial experience and a proven track record with regards to microbial strain development, metabolic engineering, microbial flux analysis, pathway design, systems biology and/or related areas.

### **Key Responsibilities**

- Conduct scientific research with senior staff in the laboratory with regards to redesigning microbial physiology at the bench and the backend bioinformatics research to enhance bio-product formation.
- Design, generate, and analyze gene libraries using a variety of molecular biology and bioinformatics based research and techniques.
- Identify biological/chemical pathways at the cellular level, theorize, propose and remodel metabolic pathways in microorganisms.
- Perform necessary genetic modifications to remodel pathway and cellular physiological functions to achieve project goals.
- Validate genes of interest for projects through literature searches, database searches, strain isolation, etc. Redesign of these sequences if required to optimize their function.
- Work with project teams in providing support to all phases of chemical process evolution-based projects.
- Main laboratory notebook.
- Contribute to Draths team presentations, written reports, and patent applications.

## Qualifications

- Ph.D. in Molecular Biology, Microbiology, Biochemistry, or Chemical Engineering with emphasis on microorganism physiology and genetic modifications.
- 3+ years of industry experience; or 8+ years of post-doc experience.
- Support in producing innovative research for future patenting and development.
- Ability to present with technical confidence at a variety of symposiums and conferences on behalf of Draths Corporation.
- Experience in working in a team environment.
- Strong written and oral communication.
- Experience working with Bacillus, Yeast, Fungi and other microorganisms desired.

Draths offers competitive compensation commensurate with experience and a benefits package including health, dental, and vision insurance, flexible spending plans, life insurance, and 401k.

Submit your cover letter, resume/CV to [molbio@drathscorporation.com](mailto:molbio@drathscorporation.com)

Please use the job title in the subject line of your email submission.

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