

Scientist, Biochemistry/Enzymology

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 Biochemist will have industrial experience and a proven track record with characterization and engineering of enzymes for optimal performance within biochemical pathways, characterization of protein variants, generation of protein variants, (including high throughput assays), and phenotypic characterization of strains expressing engineered enzymes.

Key Responsibilities

- Conduct scientific research with senior staff in the laboratory with regards to characterization of protein variants by using a variety of laboratory skills including SDS Page, Western Gel Blot, Gel Filtration native page and protein purification.
- Develop and optimize in vitro assays, measure and interpret enzyme kinetics data and be able to apply fundamentals of enzyme kinetics to bring chemical development to fruition.
- Analyze enzymatic reactions using a variety of instrumentation including: HPLC, GC, GC/MS, LC/MS, and UV/vis.
- Perform protein purifications.
- Perform microbiological techniques for a variety of microorganisms and employ single colony purification, dilutions, plate counts, and adhere to aseptic technique.
- Communicate ongoing lab results to management and help support and foster a strong team environment.

- Mutagenesis of protein and analyze results.
- Maintain laboratory notebook
- Contribute to Draths team presentations, written reports and patent applications.

Qualifications

- Ph.D. in Biochemistry, Enzymology, or Chemical Engineering with emphasis on enzyme reactions from 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 working in a team environment
- Strong written and oral communication skills
- 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

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

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