

Physical Organic or Synthetic Organic Chemist

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.

The Physical Organic/Synthetic Organic Chemist will be responsible for developing novel and practical technology for converting key fermentation products from Draths bioprocesses into “building block” for the chemical, polymer, and formulated product markets. The successful candidate will have an opportunity to participate in the commercialization of target molecules by working with a team that includes process development, commercial development, and scale-up to manufacturing.

Responsibilities:

- Develop and execute research plans to produce target products
- Analyze, identify, and quantify reaction products
- Purify products and byproducts
- Establish detailed accounting for reaction mass balances
- Scale up of laboratory-scale reactions
- Planning and execution of comprehensive plans for reaction optimization
- Responsible for all relevant advances in journal and patent literature
- Participation in collaborative research efforts
- Oversight of extramural contract research
- Submission of detailed progress reports
- Participation in authorship of contract and grant research proposals
- Authorship of patent disclosures and journal submissions
- Preparation and delivery of presentations at professional meetings and project reviews
- Perform necessary laboratory maintenance and housekeeping
- Comply with biohazards/chemical safety standards

Requirements

- Ph.D. or equivalent in Synthetic Organic or Physical Organic Chemistry with an emphasis on reaction mechanism elucidation and experience in structure-activity studies.
- Strong track record for proposing and implementing creative solutions as demonstrated by granted patents, direction contribution to development of commercial products, and/or primary author status for publications in leading journals.
- Demonstrated productivity through patents or publications
- Computer skills including familiarity with electronic Beilstein, SciFinder, Science Direct, and molecular modeling
- Excellent organizational, interpersonal, and communication skills

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 orgchemistry@drathscorporation.com

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