

## **Catalysis Engineer**

Draths Corporation, located near 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 Heterogeneous Catalyst Engineer will be responsible for working in collaboration with the Organic Chemistry and Process Engineering departments to develop catalyzed reactions, including catalyst specification, and, as required, the ability to develop novel catalysts.

### **Job Responsibilities**

- Application of catalytic reaction engineering in both vapor and liquid phase.
- Commercialization of process technology
- Operation of continuous bench to pilot scale units is a significant plus.
- Solving reaction process issues, such as preconditioning of feed and integration of reactor output with downstream processing.
- Synthesis, characterization, testing and scale up of heterogeneous catalyst fabrication.
- Project management from discovery to pilot scale.
- Optimize the performance of continuous flow catalytic reactors.
- Contribute to building the organization's knowledge of catalysts.
- Lead technical professionals in resolving complex technical issues.

### **Qualifications:**

- Hands-on experience in the design and optimization of novel heterogeneous catalysts with high selectivity and high activity.
- Demonstrated creativity and innovation.
- 20+ years of industrial experience in catalytic chemistry.
- B.S. in Chemical Engineering or related field; advanced degree (M.S. or Ph.D.) is desirable.
- Proven track record working in catalysis in the chemical, petrochemical or pharmaceutical industry.
- Proven experience of problem solving and functioning in cross-organizational teams.
- Strong knowledge of multiple phase reactions including vapor phase.
- Hands-on knowledge of standard analytical methods for catalyst characterization.
- Experience with process scale-up and/or technology transfer.
- Good communication and interpersonal skills.
- Ability to multi-task effectively and maintain excellent organization.
- Must be flexible, able to work overtime, and respond to rapidly changing priorities.
- Has fun confronting and meeting the challenges of starting a company and building an industry.

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 [catalysis@drathscorporation.com](mailto:catalysis@drathscorporation.com). Please use the job title in the subject line of your email submission.

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