## Chemical Catalyst Engineer

# Cheryl Williams

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## Professional summary

Experienced Chemical Catalyst Engineer with over 10 years in developing and optimizing catalytic processes for industrial applications. Adept at designing, testing, and scaling catalytic systems to improve reaction efficiency and product yields. Proven expertise in materials science, process engineering, and project management.

## Experience

### Senior Chemical Catalyst Engineer

October 2021 - Now

Catalysis Inc.  /  United States, Albany, NY

- Develop and optimize catalysts for hydrocracking and hydrogenation processes.
- Lead the design and implementation of pilot-scale testing for new catalytic processes, facilitating a smooth transition to commercial production.
- Manage a cross-functional team of engineers and scientists, overseeing project milestones and ensuring alignment with strategic goals.

### Chemical Catalyst Engineer

May 2019 - August 2021

InnovActive Ltd.  /  United States, Troy, NY

- Developed new catalytic materials and methods for the production of fine chemicals, enhancing product yields.
- Performed technical analysis and troubleshooting for catalyst-related issues, providing solutions to improve process stability.
- Collaborated with clients and stakeholders to understand requirements and deliver customized catalytic solutions.

### Process Engineer

July 2014 - April 2019

GreenTech Chemical Co.  /  United States, Schenectady, NY

- Designed and scaled up chemical processes, focusing on optimizing reaction conditions and improving overall process efficiency.
- Conducted research on new materials and technologies for catalytic applications, contributing to several successful product innovations.
- Implemented safety and regulatory compliance measures, ensuring adherence to industry standards and best practices.

## Professional Affiliations

### Member, American Institute of Chemical Engineers

from 2020

## Education

### Master of Science in Chemical Engineering

2012 - 2014

Rensselaer Polytechnic Institute

United States, Troy, NY

### Bachelor of Science in Chemical Engineering

2008 - 2012

University of Rochester

United States, NY

## Skills

| Skill | Rating |
|---|---|
| Expertise in developing and refining catalysts | ◆◆◆◆◆ |
| BET analysis, XRD, and SEM | ◆◆◆◆◆ |
| Scaling up laboratory processes to pilot and full-scale production | ◆◆◆◆◆ |
| Material selection and performance evaluation | ◆◆◆◆◆ |
| Analyzing experimental data and troubleshooting issues | ◆◆◆◆◆ |
| OSHA and EPA guidelines | ◆◆◆◆◆ |
| MATLAB, Aspen Plus, and ChemDraw | ◆◆◆◆◆ |

**Member, Society of Chemical Engineers**

from 2015