

# Yasmin Grimes

Sr. Chemical Engineer

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## STRENGTHS

- Analytical Thinking**  
Strong analytical skills enabled quick issue identification, inspiring trust among peers and supervisors.
- Collaboration**  
Built relationships across teams, facilitating smooth process integration and fostering collective success.
- Safety Management**  
Promoted safety compliance rigorously, reducing incidents and gaining respect from colleagues and management alike.
- Process Optimization**  
Implemented innovative solutions enhancing process efficiencies, often becoming the go-to resource for challenging problems.
- Technical Documentation**  
Produced clear, concise SOPs and technical papers, earning recognition for precision and attention to detail.

## SKILLS

### Chemical Process Development

Process Optimization

Thermodynamics

Process Modeling

Safety Compliance

Team Collaboration

### Technical Documentation

Scale-Up Processes

Surface Treatments

Regulatory Compliance

## SUMMARY

Dedicated Chemical Engineer with over 5 years of experience in chemical process development and scale-up. Proven track record optimizing processes for rare earth materials and specialty chemicals. Skilled in thermodynamics, process modeling, and cross-functional collaboration, utilizing strong problem-solving skills to drive efficiency. Adapted quickly to dynamic environments, continuously enhancing safety and sustainability within manufacturing operations. Passionate about impactful work that contributes to advancing technology and society. Eager to bring creative solutions to Innovative Materials Corp., fostering collaboration and growth within the team.

## EXPERIENCE

### Sr. Chemical Engineer

Innovative Materials Corp. 📅 March 2021 - Present 📍 Cleveland, OH

Leading design and optimization of chemical processes critical to rare earth separates.

Collaborating with diverse teams to ensure successful scaling and integration into production workflows, effectively managing project timelines and stakeholder expectations.

- Optimized chemical processes for rare earth metal separation, significantly boosting production efficiency.
- Scaled laboratory processes to pilot production, enhancing operational yield by implementing effective troubleshooting methods.
- Collaborated with multidisciplinary teams, ensuring seamless integration of complex chemical processes into existing production flows.
- Developed comprehensive standard operating procedures (SOPs), improving documentation accuracy and regulatory compliance.
- Conducted process safety evaluations and established continuous improvement practices resulting in a notable reduction in incident reports.
- Mentored junior engineers on process optimization techniques and safety protocols, enabling a culture focused on learning.

### Chemical Engineer

Met metallurgy Solutions Inc. 📅 June 2016 - February 2021 📍 Dayton, OH

Designed and optimized chemical processes for metallization, overseeing transition from concept through full-scale production. Delivered innovative solutions in collaboration with cross-functional teams.

- Developed and refined chemical processes, leading to improved product quality while minimizing waste.
- Worked closely with materials scientists to create new surface treatment methods that bolstered material durability.
- Managed scale-up initiatives for pioneering chemical processes, culminating in on-schedule production readiness.
- Analyzed extensive process data, identifying key improvement opportunities that elevated overall operational efficiency.
- Prepared technical documents crucial for regulatory compliance and internal audits, ensuring rigorous adherence to industry standards.
- Contributed insights on complex chemical challenges as part of diverse project teams, driving innovation.

## LEADERSHIP & AWARDS

- Award for Excellence in Safety Practices at Innovative Materials Corp. - 2022

Problem Solving

Project Management

Data Analysis Materials Science

Stakeholder Engagement

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Sr. Chemical Engineer at Innovative Materials Corp. (5.3 Years)

● Chemical Engineer at Metallurgy Solutions Inc. (4.7 Years)

- Team Innovation Award at Metallurgy Solutions Inc. - 2020

## EDUCATION

### Bachelor's Degree in Chemical Engineering

Ohio State University 🎓 GPA: 3.5 📅 2016 📍 Columbus, OH

**Coursework:** Thermodynamics, Process Modeling, Materials Science, Chemical Reaction Engineering

## CERTIFICATIONS

- Certified Chemical Engineer (CCE) 📅 2021
- Professional Engineer License (PE) 📅 2023

## TECHNICAL SKILLS

- **Chemical Engineering Principles:** Reaction Engineering, Mass Transfer, Heat Transfer
- **Process Design Software:** Aspen Plus, HYSYS, ChemCAD
- **Laboratory Equipment:** Chromatography Systems, Reactors, Centrifuges
- **Project Management Tools:** Microsoft Project, Trello, Asana
- **Safety Standards:** OSHA, EPA Guidelines, ISO 14001
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Statistical Analysis Tools:** Minitab, R, MATLAB
- **Quality Control Methods:** Six Sigma, FMEA, SPC
- **Material Testing:** FTIR, TGA, DSC
- **Software Development:** Python, R, MATLAB

## PROFESSIONAL AFFILIATIONS

- Member of American Institute of Chemical Engineers
- Volunteer for STEM Outreach Programs

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST