

Yasmin Grimes

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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

March 2021 - Present

Innovative Materials Corp.

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

June 2016 - February 2021

Met metallurgy Solutions Inc.

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
- Team Innovation Award at Metallurgy Solutions Inc. - 2020

EDUCATION

Bachelor's Degree in Chemical Engineering

2016

Ohio State University GPA: 3.5

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

SKILLS

- Chemical Process Development
- Process Optimization
- Thermodynamics
- Process Modeling
- Safety Compliance
- Team Collaboration
- Technical Documentation
- Scale-Up Processes
- Surface Treatments
- Regulatory Compliance
- Problem Solving
- Project Management
- Data Analysis
- Materials Science
- Stakeholder Engagement

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST