

# LANE CRUZ

## LEAD CHEMICAL ENGINEER

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### STRENGTHS

- Team Leadership**  
Fostered unity within my engineering team, enhancing collaboration on multiple key projects.
- Technical Innovation**  
Implemented novel approaches leading to significant improvements across production processes.
- Safety Compliance**  
Promoted rigorous safety standards, facilitating a zero-accident workplace for my department.
- Cost Optimization**  
Led initiatives that strategically sourced materials, resulting in substantial operational savings.
- Cross-Functional Collaboration**  
Established synergistic partnerships with various departments, enhancing project execution speeds.

### SKILLS

- Process Development
- Team Leadership
- Technical Troubleshooting
- Compliance Management
- Stakeholder Engagement
- Continuous Improvement
- Research and Analysis
- Safety Regulations
- Project Management Mentorship
- Collaboration Innovation

### SUMMARY

Driven Lead Chemical Engineer with over six years of experience in implementing advanced chemical processes. Expertise lies in leading teams and enhancing project efficiency, coupled with a solid understanding of complex technical challenges. Proven track record in optimizing costs and collaborating cross-functionally for innovative solutions. Committed to mentorship, developing junior engineers while ensuring strict compliance with safety protocols. Eager to leverage extensive background to drive positive impact at Innovative Chemical Solutions, fostering team success and implementing best practices.

### EXPERIENCE

#### Lead Chemical Engineer

Innovative Chemical Solutions June 2022 - Present Tampa, FL

Leading chemical engineering projects that enhance production efficiency while ensuring safety compliance. Oversaw a diverse engineering team and collaborated closely with stakeholders to strategize and innovate processes across the organization.

- Spearheaded development of a new chemical process, increasing production efficiency by 30%.
- Managed a team of 10 engineers, promoting collaboration and achieving timely project completions.
- Engineered solutions to intricate technical issues, resulting in a 25% reduction in downtime.
- Partnered with cross-functional departments to enhance product quality and minimize waste through effective initiatives.
- Conducted in-depth research resulting in strategic raw material sourcing, achieving a 15% cost reduction.
- Championed departmental safety compliance, establishing a zero-accident work environment.

#### Chemical Engineer

Advanced Materials Inc. April 2018 - May 2022 Orlando, FL

Focused on optimizing chemical processes while collaborating with research teams on product innovations. Played a vital role in boosting production capacity and mentoring junior engineers within the company.

- Engineered and optimized chemical processes, achieving a 20% boost in production capacity.
- Collaborated with R&D teams, contributing ideas for three successful new product formulations.
- Evaluated production data to address inefficiencies, implementing corrective actions that improved operations.
- Built strong relationships with suppliers and internal stakeholders to ensure resource availability.
- Mentored junior engineers, enhancing their technical proficiency and contributions to projects.
- Meticulously maintained adherence to safety protocols, earning commendable compliance ratings during audits.

#### Junior Chemical Engineer

EcoChem Solutions January 2016 - March 2018 Clearwater, FL

Participated in the development of chemical processes with emphasis on improving safety and refinement. Supported experienced engineers while gaining practical knowledge and hands-on troubleshooting experience.

- Assisted in evolving chemical processes focusing on both efficiency and safety measures.
- Conducted experiments with meticulous documentation, contributing valuable insight into process enhancements.

Data Analysis Cost Reduction

Problem Solving Quality Assurance

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Lead Chemical Engineer at Innovative Chemical Solutions (4.1 Years)

● Chemical Engineer at Advanced Materials Inc. (4.1 Years)

● Junior Chemical Engineer at EcoChem Solutions (2.2 Years)

- Supported identification of production issues by assisting senior engineers in troubleshooting procedures.
- Engaged in continuous learning, attending safety training and collaborative projects with team members.
- Participated actively in team discussions, enhancing communication and teamwork skills.

## LEADERSHIP & AWARDS

- Excellence Award for Safety Compliance, Innovative Chemical Solutions, 2023
- Leadership Development Award, Advanced Materials Inc., 2021

## EDUCATION

### Bachelor's Degree in Chemical Engineering

University of Florida 🎓 GPA: 3.8 📅 2015 📍 Gainesville, FL

**Coursework:** Thermodynamics, Chemical Process Analysis, Reaction Engineering, Fluid Mechanics

## CERTIFICATIONS

- Certified Chemical Engineer (CCE) 📅 2021
- Six Sigma Green Belt 📅 2020

## TECHNICAL SKILLS

- **Chemical Engineering Software:** MATLAB, Aspen Plus, ChemCAD
- **Data Analysis Tools:** Excel, Minitab, SPSS
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Simulation Software:** COMSOL, ANSYS, HYSYS
- **Statistical Quality Control:** Six Sigma, Kaizen, DMAIC
- **Documentation Standards:** ISO 9001, AS9100, ASTM
- **Regulatory Compliance:** EPA Standards, OSHA Guidelines, REACH Regulation
- **Laboratory Techniques:** Spectroscopy, Chromatography, Titration
- **Process Equipment:** Reactor Systems, Heat Exchangers, Distillation Columns
- **Health & Safety Protocols:** Risk Assessment, Safety Audits, Incident Reporting

## PROFESSIONAL AFFILIATIONS

- Member, American Institute of Chemical Engineers (AIChE)
- Volunteer, STEM Outreach Programs in Local Schools

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST