



Brooklyn Ballard

Process Engineer Intern

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SUMMARY

Passionate Chemical Engineering student with hands-on experience in cement production processes through dynamic projects and internship roles. Eager to leverage rigorous technical knowledge and collaborative attitude for continuous improvement at Breezy Cement Corp. Demonstrated ability to perform process optimization, enhance operations efficiency, and ensure compliance with safety protocols. Proven effectiveness in utilizing analytical skills to conduct audits and suggest impactful improvements. Strong focus on sustainability aligns with Breezy Cement's commitment to environmental stewardship. Prepared to contribute significantly toward team objectives while learning from industry-leading professionals.

EDUCATION

Bachelor of Science in Chemical Engineering

University of Tennessee 🎓 GPA: 3.8 📅 2026 📍 Knoxville, TN

Coursework: Cement Chemistry, Process Optimization, Data Analysis, Technical Writing

TECHNICAL SKILLS

- **Process Control Software:** Eagle Technology, CEMView, Automated System Optimization
- **Data Analysis Tools:** MATLAB, Python, Microsoft Excel
- **Project Management Software:** Microsoft Project, Asana, Trello
- **Reporting Tools:** Tableau, Microsoft Power BI, Google Analytics
- **Chemical Engineering Principles:** Thermodynamics, Fluid Mechanics, Material Science
- **Documentation Standards:** ISO 9001, ASTM International, OSHA Regulations
- **Testing Equipment:** Spectrophotometer, Viscometer, pH Meter
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Collaboration Tools:** GitHub, SharePoint, Confluence
- **Presentation Software:** PowerPoint, Prezi, Google Slides

EXPERIENCE

Chemical Engineering Intern

University Research Lab 📅 June 2025 - August 2025 📍 Chattanooga, TN

Supported critical projects within a university research lab, focusing on operational efficiencies in chemical processes. Collaborated closely with faculty and peers, enhancing practical understanding of manufacturing standards and regulations. Gained exposure to real-world applications, contributing feedback that positively impacted internal safety protocols.

- Conducted robust process audits, pinpointing inefficiencies and crafting actionable recommendations.
- Engaged in the documentation of laboratory findings, leading to improved safety measures.
- Utilized Microsoft Office Suite effectively for data management, improving report generation.
- Streamlined presentation creation for conferences, showcasing essential research methodologies.
- Participated actively in collaborative brainstorming sessions focused on process enhancements.
- Collected and analyzed performance data, ensuring compliance with established industry regulations.

Capstone Project Developer

University Project 📅 January 2025 - May 2025 📍 Nashville, TN

Led a transformative team project aimed at developing a sustainable cement formulation. Engaged with local construction stakeholders to understand application requirements while balancing environmental impact and production quality. The project resulted in valuable insights for future product designs in cement engineering.

STRENGTHS



Analytical Problem Solver

Created innovative solutions to optimize manufacturing processes based on real-time data analysis, demonstrating adaptability in various situations.



Team Collaboration

Built strong relationships with peers and supervisors while workshopping ideas for process improvements, contributing to a positive work environment.



Technologically Proficient

Skilled in using Microsoft Office tools efficiently, showcased during large project timelines for enhanced reporting accuracy.



Research-Oriented

Focused on integrating cutting-edge research into practical implementations, which informed successful innovative designs in several projects.



Safety Conscious

Upheld safety measures across various projects and tasks, ensuring strict compliance with regulations and fostering trust among teammates.

SKILLS

Cement Chemistry

Process Optimization

Microsoft Office Data Analysis

Technical Writing

Project Management

Effective Communication

Laboratory Safety

Sustainable Practices

Collaborative Learning

Time Management

Performance Evaluation

Problem Solving

Quality Control

Research Methodology

LANGUAGES

English

Native

Spanish

Proficient

MY CAREER

9

MONTHS

Chemical Engineering Intern at University Research Lab (2 Months)

Capstone Project Developer at University Project (4 Months)

Research Assistant at Academic Research (3 Months)

- Pioneered a comprehensive research initiative to create an optimized cement mix design.
- Analyzed performance outcomes through systematic laboratory testing, addressing different material compositions.
- Presented findings confidently before a panel of experts, garnering constructive industry feedback.
- Developed an intricate report detailing methodologies and continuous improvement strategies.
- Employed software tools for meticulous data analysis, refining presentation development skills.
- Fostered innovation through an inclusive team environment, encouraging idea-sharing.

Research Assistant

Academic Research📅September 2024 - December 2024📍Nashville, TN

Assisted in driving research initiatives regarding cement production mechanisms. Developed critical problem-solving strategies utilised within a collaborative academic setting, emphasizing the importance of safety and adherence to protocols. Enhanced understanding of advanced topics in chemical engineering.

- Supported comprehensive research efforts focusing on optimization practices for advanced materials.
- Participation in detailed discussions pertaining to new methodologies and experimental techniques.
- Accumulated and examined valuable quantitative data related to optimization efforts.
- Worked alongside faculty members in drafting scholarly publications, strengthening technical writing acumen.
- Promoted equipment maintenance diligence by enforcing rigorous safety checks during all research activities.
- Enhanced knowledge of sustainability approaches in material sciences, appealing to modern engineering challenges.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)
- First Place, Engineering Design Challenge (2025)

CERTIFICATIONS

- Microsoft Office Specialist📅2026
- Safety in Chemical Engineering Practices📅2026

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society
- Volunteer, Habitat for Humanity

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST