

Brooklyn Ballard

Process Engineer Intern

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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

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.

