

Sanelisiwe Zinhle Jiyane

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Professional Summary

A detail-oriented Biochemistry and Microbiology Graduate from the University of KwaZulu-Natal (UKZN) with a solid foundation in Quality Management Systems (QMS), Good Laboratory Practices (GLP), and Safety protocols. Proven expertise in technical documentation, laboratory safety, and process monitoring. Highly analytical and proficient in maintaining 100% compliance with safety and housekeeping standards.

Education

- University of KwaZulu-Natal** 2025
Bachelor of Science (Biochemistry and Microbiology)
- Ngali Secondary School (National Senior Certificate)** 2020
Subjects: Computer Applications Technology (CAT), Mathematics, Physical Sciences, Life Sciences, English (FAL), IsiZulu (HL), Life Orientation.
Key Competencies: Advanced MS Office Suite (Excel, Access, Word), numerical analysis, and technical report writing.

Core Skills & Competencies

- Strong communication skills with fluency in English.
- Ability to work independently with minimal supervision.
- Proactive and self-motivated with strong initiative.
- Detail-oriented with strong follow-through.
- Willingness to learn.
- Content to complete repetitive tasks.

Relevant Graduate & Research Experience

- University of KwaZulu-Natal** 2021 - 2024
Graduate Researcher
 - Safety & Compliance Management: Operated and calibrated complex laboratory equipment (autoclaves, thermal cyclers) in strict adherence to safety and housekeeping protocols.
 - Risk Mitigation: Conducted independent testing of biological samples, ensuring results met academic "out-of-specification" safety protocols to prevent contamination.
 - Technical Documentation: Managed and updated meticulous records for over 100 experiments, ensuring data integrity for audit-style reviews.
 - Process Improvement: Monitored critical parameters (pH, temperature) during industrial fermentation simulations to ensure product safety and quality.

Technical Quality & Environmental Projects

- Water Purification & Quality Testing**
 - Designed and tested filtration systems to assess contaminant removal, aligning with effluent and process water safety standards.
- Industrial Fermentation (Quality Control)**
 - Managed pure cultures using aseptic techniques, simulating industrial food production quality and safety environments.

- **Data Analysis & Statistics**

- Used Python and SQL to clean and visualize research data, providing insights for postgraduate projects—skills applicable to collating SHE statistics.

Languages

- Afrikaans
- English
- IsiZulu

Reference

- Available upon request.