

Riska Fitriani

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SUMMARY

Chemistry graduate from Bandung Institute of Technology with a solid foundation in chemical analysis and a strong interest in pharmaceutical product development. Bringing analytical abilities for laboratory trials and data analysis, developed through biochemistry research and industry internships. Completed formal training in ISO 17025 verification and validation, which supports a practical understanding of Good Laboratory Practice (GLP) standards. Ready to apply my laboratory expertise to support continuous analytical method development and ensure product quality.

WORKING EXPERIENCE

Quality Control & Utilities Intern

June 2026 – August 2026

PT Biofarma (Persero), Indonesia

- Conducted Total Organic Carbon (TOC) and conductivity tests on water for injection, pure steam, and pure water.
- Evaluated TDS, hardness, and various chemical levels (chloride, iron, sulfate, organic compounds) in raw and pre-treatment water using test kits. Evaluated phenoxyethanol levels in media using gas chromatography.
- Recorded and managed water quality analysis data using Microsoft Office.

Laboratory Assistant

September 2025 – June 2026

Faculty of Mathematics and Natural Sciences, ITB, Indonesia.

- Tutored students across Basic, Physical, and Biochemistry laboratories, guiding them in chemistry concepts and the proper use of lab equipment.
- Collaborated with analysts to prepare lab materials and demonstrated strict laboratory safety procedures.

Quality Control and Production Intern

July 2025 – August 2025

PT Dongjin Indonesia, Cilegon, Indonesia.

- Analyzed raw material quality by determining moisture, free ammonia, ash, and oil content, alongside preparing standardized stock solutions.
- Evaluated various grades of ADCA products through decomposition temperature, gas volume, pH, and particle size testing.
- Monitored the production processes of NaOCl and HDCA (ADCA intermediate), as well as the ammonia recovery process for hydrazine hydrate production.

Teaching Assistant

June 2024 – September 2024

Worked on Pancasila Course for first year (TPB) students, ITB, Indonesia.

- Mentored TPB students in executing community service projects for the Pancasila Course.
- Assisted teaching staff by guiding students with assignments and grading assessments.

ORGANIZATIONAL & PROJECT EXPERIENCE

Biochemistry Research Mini Project

April 2025 – June 2025

Bandung Institute of Technology, Indonesia

- Conducted a collaborative replication study on subcloning the SARS-CoV receptor-binding domain (RBD) gene into *Pichia pastoris* for vaccine development.
- Performed transformation and cultivation of *E. coli* and *P. pastoris* cells.
- Amplified target genes utilizing Polymerase Chain Reaction (PCR) techniques.
- Determined cell density, protein concentration, and protein activity using a UV-Vis spectrophotometer.

Academic Staff of "Chempro" Department Chemistry ITB

June 2024 – April 2025

Chemistry Department Student Association, Bandung Institute of Technology

- Analyzed the latest academic structures to align study materials with the updated basic chemistry curriculum.
- Developed comprehensive question banks and answer keys to support student learning and exam preparation.

Academic Staff of Himpunan Mahasiswa Kimia (HMK) 'AMISCA' ITB**October 2023 – March 2025**

Bandung Institute of Technology, Indonesia

- Compiled and organized a comprehensive academic drive containing lecture materials, e-books, and past exam questions with detailed explanations.
- Coordinated with tutors to schedule and facilitate academic tutorial sessions for chemistry undergraduate students.

Scientific Paper Staff of OKTAN ITB**November 2023 – February 2024**

Bandung Institute of Technology, Indonesia

- Reviewed and screened scientific paper abstracts submitted by university participants nationwide.
- Coordinated with academic judges to ensure the smooth execution of the scientific paper competition.

EDUCATION**Bandung Institute of Technology (ITB)****August 2022 – August 2026**

Bachelor of Chemistry, Faculty of Mathematics and Natural Sciences

GPA: 3.32 /4.00

- Conducted a final year project focusing on the expression of recombinant laccase enzyme utilizing the *Pichia pastoris* host system.
- Actively engaged as a laboratory assistant for Biochemistry, Physical Chemistry, and Basic Chemistry courses.

ACHIEVEMENT**Awardee of Dean's List for Academic Achievement****2024 – 2026***Awarded for four consecutive semesters for maintaining a GPA of 3.50 or higher with a minimum grade of B across a 15-credit course load.***Awardee of Salman Catalyst Scholarship****October 2023 – December 2023***Selected for a merit-based scholarship granted to students actively promoting and acting as ambassadors for Salman ITB programs.***SKILL****Laboratory Instruments:** Proficient in pH Meter, Moisture Analyzer, Spectrophotometer UV-Vis, FTIR, Biochemistry Instruments; Familiar with AAS, GC, HPLC**Technical:** QC, Laboratory Analysis, Design of Experiments, Raw Material Evaluation, ISO 17025 (Trained), GMP, CPOB**Tools:** Microsoft Office, Google Workspace, RStudio (Statistical Analysis & Data Visualization)**Soft Skills:** Adaptability, Time Management, Teamwork, Attention to Detail, Analytical Thinking, Communication**Language:** Bahasa Indonesia (native), English (Upper-Intermediate/B2: Active in Reading and Writing)**TRAINING****SNI ISO/IEC 17025:2017 Validation and Verification Laboratory's Method****April 2026**

Issued by HMK 'AMISCA' ITB

Mastered the procedural requirements for effectively conducting and distinguishing laboratory method validation and verification.

ISO/IEC Guide 98-3:2008 & EURACHEM/CITAC Guide CG4 2012 Uncertainty Estimation**November 2025**

Issued by PT. Aljabar Training & Consulting

Evaluated measurement uncertainty in data processing by analyzing variables such as sampling, equipment calibration, and analytical methods.

SNI ISO/IEC 17025:2017 Awareness Training**October 2025**

Issued by HMK 'AMISCA' ITB

Acquired foundational knowledge of the standards, significance, and implementation of laboratory accreditation in the chemical industry.

PPLB3 E381200.001.01 & OPLB3 E382200.001.01 Awareness Training**September 2025**

Issued by HMK 'AMISCA' ITB partnered with PT IBantos

Gained practical knowledge of standard operating procedures for the handling and disposal of hazardous and toxic waste (B3) in industrial settings.