

HARYATI PRISKILLA TARIGAN

Chemist | Industrial Operations | Quality & Laboratory Analyst

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Chemistry graduate from the University of Lampung with hands on experience in chemical analysis, industrial laboratory testing, material characterization, and manufacturing operations. Experienced in industrial internship, laboratory research, production operations, and team supervision. Skilled in analytical instruments, SOP implementation, quality and safety compliance, data analysis, and problem solving. Adaptable to fast paced industrial environments and motivated to develop a career in industrial operations and leadership.

Education

University of Lampung – Bandar Lampung 2021 – 2025
Chemistry - GPA 3.76/4.00 (Cumlaude) [Certificate](#)

- **Research** : Testing the Activity of S/CaO/nGO (0.5/1 and 0.875/1) as Antibacterial (*Bacillus subtilis* and *Escherichia coli*) and Antifungal (*Candida albicans*) Agents Irradiated with Visible Light
- **Relevant coursework** : Analytical Chemistry, Inorganic Chemistry, Physical Chemistry, Laboratory Management, Environmental Chemistry, Waste Processing Techniques, Chemical Kinetics, Chemistry Catalyst, Research and Writing Methods [Transcript](#)

Work Experience

PT. Volex Indonesia | Production Operator – Batam May 2026 – present

- Perform visual inspection to identify product damage and defects, and record defective products for quality monitoring.
- Maintain process accuracy and consistency while adhering to production, quality, and safety standards in fast-paced manufacturing environment.
- Operate various manufacturing equipment and processes in accordance with SOPs and work instructions.

University of Lampung | Final Project Research – Bandar Lampung Oct 2024 – May 2025

- Synthesizing S/CaO/nGO nanocomposites from corn cob and eggshell waste using modified Hummers, sol-gel, and impregnation methods.
- Characterized materials using FTIR, XRD, and UV-Vis DRS, analyzed experimental data using OriginPro, and evaluated antimicrobial activity through microbiological testing.

Physical Inorganic Chemistry Laboratory, University of Lampung – Bandar Lampung Aug 2024 – Dec 2024

Laboratory Assistant for Physical Chemistry II Course [Certificate](#)

- Prepared laboratory equipment and materials required for practical sessions and ensured laboratory readiness.
- Led and supervised 36 chemistry students in conducting physical chemistry laboratory experiments, including the use of laboratory equipment and analytical instruments (pH meter, bomb calorimeters, analytical balance) and ensuring compliance with laboratory safety standards, SOPs, and good laboratory practices (GLP).
- Evaluated students laboratory work and reports, and assisted with data analysis and experimental result.

Integrated Waste Management Unit DKI Jakarta | Laboratory Analyst [Certificate](#)– Bekasi Aug 2023 – Dec 2023

- Conducted wastewater analysis on WWTP samples including COD (titrimetric and UV-Vis Spectrophotometry methods), TSS (gravimetric and TSS meter), pH, and total Hg using UV-Vis, TSS meter, pH meter, and mercury analyzer.
- Conducted quality analysis of Refuse Derived Fuel (RDF) products including moisture and ash content (oven and furnace), calorific value analysis (bomb calorimeter), elemental analysis (XRF), and particle size distribution (sieve shaker).
- Assisted in sample preparation, test documentation, and reporting while ensuring laboratory safety and quality compliance.

Organization

Student Association of Chemistry | Science and Chemistry Reasoning Member [Certificate](#) Jan 2022– Dec 2022

- Contributed to academic development programs aimed at improving student's analytical and scientific reasoning skills such as Scientific Discussions, Himaki Training Series, Chemistry Expo, and other programs.
- Coordinated the Public Relations, Publication, Design, and Documentation Division for the 2022 Himaki Training Series involving 15+ external media partners.
- Equipment Division Secretary for the 2022 Scholarship Seminar, coordinating team logistics and equipment readiness.

Technical Skills

- **Laboratory Instrument** : UV-Vis spectrophotometer, FTIR, XRD, XRF, pH meter, furnace, mercury analyzer, TSS meter, calorimeter bomb, analytical balance, sieve shaker, chromatography.
- **Data and Software** : Microsoft Office (Word, Excel, PowerPoint), Google Workspace (Drive, Docs, Slides, Spreadsheets), OriginPro, ChemsSketch, Chemdraw.
- **Hard Skills** : Chemical analysis, instrumental analysis, manufacturing operations, quality control, data analysis, communication, SOP compliance, problem solving..
- **Language** : Indonesian (Native) and English (Intermediate – TOEFL 567 [Certificate](#)).

Additional Experience [Certificate](#)

- **Intensive Bootcamp Microsoft Excel**, Karirnex Feb 2026
- **Fundamental and Advance Spectroscopy (UV-Vis, IR, NMR)**, TemanLab Jan 2026
- **SNI ISO/IEC 17025:2017; SNI ISO 9001:2015; SNI ISO 45001:2018** , Badan Standarisasi Nasional Dec 2025
- **Introduction to X-Ray Diffraction (XRD)**, Nusa Veritas Inspektama Dec 2025
- **Instrument High-Performance Liquid Chromatography (HPLC) Training**, TemanLab Nov 2025