



ZAHRA JUVI VANESHA

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Bogor, Indonesia

Quality Control and Analytical Laboratory Professional with experience in chemical, physical, and microbiological testing across food, lubricant, and environmental laboratories. Experienced in sample preparation, laboratory testing, method validation, result verification, equipment calibration, and the operation of analytical instruments in compliance with ISO/IEC 17025, GLP, GMP, and HACCP requirements. Committed to delivering accurate analytical results, maintaining laboratory quality systems, and supporting product quality assurance and operational excellence.

Work Experiences

CV Arira Pangindo - Bogor, Indonesia

Nov 2025 - Present

Quality Control & Microbiology Laboratory Analyst

- Performed microbiological testing on raw materials, intermediate products, finished products, and environmental samples in accordance with laboratory SOPs to ensure product quality and food safety compliance.
- Conducted Total Plate Count (TPC), Enterobacteriaceae, Escherichia coli, Yeast & Mold, and Salmonella analyses using established microbiological testing methods.
- Executed Environmental Monitoring activities, including air sampling, surface swab, contact plate, settle plate, and personnel monitoring to support GMP implementation and manufacturing hygiene.
- Prepared, sterilized, verified, and performed Growth Promotion Tests (GPT) on microbiological culture media to ensure media suitability prior to routine laboratory analysis.
- Operated and maintained laboratory equipment, including autoclaves, incubators, ovens, micropipettes, and analytical balances, ensuring equipment readiness and compliance with laboratory procedures.
- Maintained laboratory documentation and testing records while ensuring compliance with GLP, GMP, HACCP, ISO 22000, and the company's quality management system.
- Collaborated with the Quality Control and Production teams to support raw material release, in-process monitoring, and finished product quality verification.

PT Pertamina Lubricants - Jakarta, Indonesia

Feb 2025 - Jul 2025

Chemical Analyst Laboratory Oil Clinic Intern

- Performed used lubricating oil quality analysis based on ASTM testing methods to support oil condition monitoring and equipment performance evaluation.
- Operated various analytical instruments, including ICP-OES, FTIR, Karl Fischer Titrator, Automatic Viscometer, TAN/TBN Titrator, Flash Point Tester, and Pour Point Tester, following established laboratory procedures.
- Conducted sample preparation, verified analytical results, and ensured data accuracy through laboratory quality control procedures.
- Supported laboratory equipment maintenance and calibration activities to maintain analytical accuracy, precision, and reliability.
- Prepared laboratory documentation and testing records while ensuring compliance with ISO/IEC 17025:2017, laboratory safety regulations, and the company's quality management system.
- Collaborated with laboratory analysts to complete routine testing efficiently and support timely analytical services for customers.

Pusat Standarisasi Instrumen Kualitas Lingkungan Hidup (PSIKLH) Tangerang Selatan - Serpong, Indonesia

Jan 2023 - Jun 2023

Quality Control & Laboratory Analyst Intern

- Performed sample preparation and laboratory analysis of soil and solid waste parameters in accordance with established analytical methods and laboratory procedures.
- Operated Atomic Absorption Spectrophotometer (AAS) and Gas Chromatography (GC) instruments for environmental analysis.
- Prepared standard solutions and laboratory reagents while ensuring the readiness of analytical materials and equipment.
- Supported laboratory equipment calibration, verification, and preventive maintenance to maintain the quality and reliability of analytical results.
- Maintained laboratory documentation and ensured compliance with ISO/IEC 17025, Good Laboratory Practice (GLP), and laboratory safety procedures.
- Collaborated with laboratory analysts to support environmental testing activities and ensure timely completion of laboratory operations.

Education Level

Politeknik AKA Bogor - Bogor, Indonesia

Sep 2023 - Nov 2025

Diploma in Chemical Analyst, 3.71/4.00

- Developed competencies in chemical analysis, instrumental analysis, microbiology, environmental analysis, and quality control through comprehensive laboratory coursework and practical training.
- Operated analytical instruments including UV-Visible Spectrophotometer, AAS, HPLC, GC, FTIR, Karl Fischer Titrator, and ICP to support laboratory testing and chemical analysis.
- Applied method validation, result verification, laboratory equipment calibration, sample preparation, and analytical data interpretation following good laboratory practices.
- Completed a final research project based on ASTM D6304 for water content determination using a Karl Fischer Titrator at PT Pertamina Lubricants Oil Clinic Laboratory.

Padang Vocational School of Chemical Analyst - Padang, Indonesia

Jun 2019 - May 2023

High School Diploma in Chemical Analyst, 92.15/100.00

- Built fundamental competencies in chemical analysis, food analysis, environmental analysis, microbiology, and quality control through intensive laboratory based education.
- Operated UV-Visible Spectrophotometer, AAS, HPLC, and GC, while applying sample preparation, standard solution preparation, titration, gravimetric analysis, and quantitative analytical techniques.
- Conducted a research project on PCB analysis in sediment samples using GC-ECD as part of environmental analytical laboratory .

Organisational Experience

Chemical Analysis Arts Association - Bogor, Indonesia

Sep 2024 - Nov 2025

Research and Development Division (R&D Division)

Team Leader

- Coordinated the preparation and execution of organizational programs in collaboration with committee members to ensure effective event implementation.
- Organized various campus events, including cultural performances, and student activities, from planning through execution.
- Collaborated with multiple divisions to manage technical requirements, participant coordination, and overall event operations.
- Strengthened communication, teamwork, leadership, time management, and problem-solving skills through active involvement in organizing organizational programs.

Project, Certification, and Skills

- **Projects** (2025): Conducted an ASTM-based research project on water content determination in lubricants using Karl Fischer Titration at PT Pertamina Lubricants.
- **Projects** (2023): Conducted sediment analysis research for environmental quality assessment using Gas Chromatography-Electron Capture Detector (GC-ECD).
- **Projects** (2022): Conducted a food product development research project by evaluating fruit syrup quality through sugar content analysis, Atomic Absorption Spectrophotometry (AAS), and Total Plate Count (TPC).
- **Modules Taken** (2024): Completed professional training in Management Systems covering SNI ISO 9001:2015 (Quality Management System), SNI ISO 14001:2015 (Environmental Management System), and SNI ISO 22000:2018 (Food Safety Management System).
- **Modules Taken** (2024): Participated in the Creation of Enterprises through Formation of Entrepreneurs (CEFE) and Achievement Motivation Training (AMT).
- **Hard Skills**: Certified in : Laboratory Equipment Calibration, Analytical Method Validation, and Chemical Analysis under BNSP KKNi Level III, covering gravimetric analysis, volumetric analysis, proximate analysis, non-instrumental physical testing, microbiology, sampling, UV-Visible Spectrophotometry, AAS, HPLC, and GC.
- **Hard Skills**: Proficient in : Microsoft Office (Excel, Word, PowerPoint, Outlook) and Minitab for laboratory data.
- **Soft Skills**: Demonstrates strong analytical thinking, critical thinking, problem solving, communication, teamwork, time management, and attention to detail in laboratory operations. Able to communicate effectively in both Bahasa Indonesia and English in academic and professional environments.
- **Achievements** (2025): Graduated with Cum Laude honors from the Diploma III Chemical Analysis Program at Politeknik AKA Bogor.
- **Achievements** (2023): Earned the All-round Laboratory Skill Level 3 (LS30117) certification issued by Hobart Technology Australia .