



IQBAL ANANDA TAQWA, S.Farm.

Quality Control | Quality Assurance | Analytical Development | Research and Development

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SUMMARY

Bachelor of Pharmacy graduate from Universitas Pancasila with hands-on experience across Quality Control, Quality Assurance, Analytical Development, and Research & Development within pharmaceutical and academic laboratory settings. Skilled in analytical method verification, instrumental analysis (HPLC, GC-MS, ICP-OES, FTIR), and data integrity practices (ALCOA+) in compliance with cGMP/CPOB and ISO standards (9001, 17025, 45001). Experienced in solid dosage formulation, in-silico and in-vivo drug research, with a strong interest in Quality Control, Quality Assurance, Analytical Development, Research and Development, pharmaceutical product innovation, natural product research, and R&D cost analysis.

WORK EXPERIENCE

Analytical | Pharma Metric Labs (Internship)

May 2026 – Aug 2026

- Data Integrity & ALCOA+: Enforced ALCOA+ principles across all lab activities; managed user access controls and electronic audit trails for HPLC, GC, Karl Fischer, and UTM to ensure data security.
- Method Verification: Collaborated on verification protocols for impurities, residual solvents (USP <467>), and elemental impurities (ICP-OES, USP <232>) in compliance with cGMP/CPOB.
- Technical Documentation & SOPs: Authored SOPs, technical reports, and Analysis Worksheets (LKA) for Comparative Dissolution Testing (UDT) and raw material profiling.
- Instrumentation & Troubleshooting: Operated and troubleshoot high-precision instruments (HPLC, GC-MS, ICP-OES, FTIR) while ensuring strict adherence to system suitability, LOD, and LOQ parameters.

Research Assistant | Universitas Pancasila

Jan 2026 – Mar 2026

- Conducted compound characterization and data analysis of 330 samples in alignment with ISO 17025 quality management and research audit standards.
- Developed a comprehensive database summarizing the activity of each compound, including IC₅₀ values.
- Identified trends and correlations between chemical structures and their antioxidant potency through structure activity relationship (SAR) analysis.
- Strictly enforced **ISO 45001** standards and Laboratory Safety (K3) protocols, maintaining a 100% secure and compliant environment.

Assistant Lecturer Solid Dosage Form Technology | Universitas Pancasila

Sep 2025 – Jan 2026

- Supervised undergraduate students during lab-scale production, providing technical guidance on the evaluation and manufacturing of solid preparations.
- Managed end to end formulation and characterization of solid dosage forms following **ISO 9001** quality standards and Pharmacopeial requirements.
- Conducted critical physicochemical analysis, including dissolution and stability testing, to monitor and evaluate product performance and shelf-life.
- Analyzed complex experimental data to optimize formulation parameters and improve product stability.

Assistant Lecturer Pharmacology and Toxicology | Universitas Pancasila

Sep 2025 – Jan 2026

- Facilitated undergraduate practicums, providing expert guidance on complex toxicity testing protocols and high-precision dose calculations to ensure student competency.
- Strictly enforced **ISO 45001** standards and Laboratory Safety (K3) protocols, maintaining a 100% secure and compliant environment.
- Supervised toxicological assessments ensuring adherence to GLP and high-precision dosing to minimize margins of error.
- Executed advanced in vivo animal handling techniques, consistently achieving high accuracy and reproducibility in experimental data sets.

Research Assistant In Vivo Studies & Animal Handling | Universitas Pancasila **Aug 2025 – Dec 2025**

- Expertly managed mouse model colonies, overseeing health monitoring and breeding protocols to ensure a stable and viable research population.
- Guaranteed 100% adherence to Institutional Animal Care and Use Committee (IACUC) guidelines and global animal welfare principles across all research phases, enforced **ISO 45001** standards and Laboratory Safety (K3) protocols, maintaining a 100% secure and compliant environment..
- Executed meticulous sampling and observation protocols to ensure the accuracy and reproducibility of longitudinal study results.

Research Assistant In Silico Analysis & Molecular Docking | Universitas Pancasila **Aug 2025 – Dec 2025**

- Applied advanced computational modeling and virtual screening to predict molecular interactions, identifying high-potential drug candidates with precision.
- Streamlined the early-stage drug discovery process by utilizing digital tools, significantly reducing time and costs in the R&D cycle.

Assistant Lecturer Physical Pharmacy | Universitas Pancasila **Mar 2025 – Jun 2025**

- Facilitated laboratory sessions by guiding students through complex physicochemical experiments and ensuring rigorous adherence to safety standards.
- Meticulously managed laboratory equipment and provided technical assistance in analyzing the physical properties of drugs for R&D pre-formulation.

Assistant Lecturer Solid Dosage Form Technology | Universitas Pancasila **Sep 2024 – Jan 2025**

- Optimizing formulation parameters and enhancing product stability through complex data analysis.
- Guaranteed full compliance with lab protocols and pharmacopeial standards for every preparation, ensuring quality and safety.
- Mentoring undergraduate students in lab-scale production and evaluation of solid dosage forms, providing in-depth technical guidance.
- Managed end-to-end formulation and characterization of solid dosage forms following **ISO 9001** quality standards and Pharmacopeial requirements.

Senior Investment Analyst | PT Tipscuan Indonesia **Mar 2021 – Jun 2022**

- Demonstrated expertise in the Indonesian stock market by developing comprehensive investment analyses and actionable recommendations.
- Successfully managed strategic portfolio construction by delivering 1.328 comprehensive market analyses with a proven 87,27% forecasting accuracy rate.
- Interpreted complex financial data and forecasted market movements to support strategic, data-driven decision-making.

ORGANIZATION & LEADERSHIP

Head of the Cohort 20, University of Pancasila **Feb 2024 – Jan 2026**

Communicates with Batch Representatives from senior or junior years to maintain harmony and facilitate knowledge sharing

Member of Commission V, Student Representative Board **Apr 2023 – Feb 2024**

Oversaw financial transparency, audited budget proposals, and managed strategic funding allocations.

Chairman, Student Working Board **Dec 2022 – Feb 2023**

Led the execution of the Student Congress and campus-wide elections, managing logistical operations and electoral regulations.

Volunteer, KitaBisa.com **July 2023**

Coordinated logistics and food safety protocols for distribution initiatives in a fast-paced environment.

EDUCATION

Faculty of Pharmacy, Universitas Pancasila

- Specialization: Medicinal Chemistry
- Bachelor Thesis: Drug candidate development through synthesis, in silico screening, and in vivo antidiabetic evaluation
- Techniques: FTIR, UV-Vis, LC-MS, TLC, molecular docking, in-vivo assay

ADDITIONAL INFORMATION

- Technical Skills: Drug Development, Laboratory Management, Analytical Method Development & Testing, Research & Experimental Data Analysis, Laboratory Safety (K3)
- Software: Molecular Visualization Software, ChemDraw, Molegro Virtual Docker, MassLynx, Financial Data Forecasting Tools, Bloomberg Terminal, Microsoft Office, Notion
- Quality & Regulatory Compliance: ISO 17025 (Laboratory Competence), ISO 45001 (Occupational Health & Safety), ISO 9001 (QMS), Good Laboratory Practice (GLP), Good Manufacturing Practice (GMP/CPOB)
- Interests: Pharmaceutical Product Innovation, Natural Product Research, Computational Chemistry & Drug Discovery, Pharmacology & Toxicology Trends, Market & Cost Analysis in R&D