

ANASTASYA CURIE SITANGGANG

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EDUCATION

Semarang State University | *Bachelor of Chemistry in Inorganic Chemistry*

[August 2021 – April 2025]

- **GPA:** 3.78/4.00
- **Area of Interest:** Inorganic Chemistry, Analytical Chemistry, Organic Chemistry, Material Chemistry, Biochemistry, Microbiology, Environmental Chemistry, and Sensor Chemistry.
- **Article Published:** [\[Article Published-1\]](#) dan [\[Article Published-2\]](#)

EXPERIENCES

Quality Control Work in Process and Finished Goods – PT Mersifarma

[February – Now 2026]

- Developed and optimized analytical method for assay, dissolution, PK, KB, KK, pH, viscosity, hardness, disintegration using HPLC, UV-Vis, FTIR, LPC (Liquid Particle Counters), and pH Meter to ensure product compliance with CPOB/GMP and release standards.
- Led investigation of Out of Specification (OOS) results, supporting CAPA implementation, identifying root causes through data analysis and cross-functional collaboration with production, ensuring consistent product quality.
- Maintained high data integrity by accurately documenting test results, preparing Certificates of Analysis (COA), and verifying packaging details prior to product release.
- Collaborated with R&D and cross-functional teams to compare analytical methods, validate results, and ensure alignment between development and quality control standards.

Inventory and Quality Control Product – PT Tigaurat Buhit Jaya

[October – December 2025]

- Responsible for ensuring the suitability, quality, and traceability of incoming drugs, as well as supporting the inventory documentation process to meet audit requirements and distribution to hospitals.
- Receiving and verifying drugs by matching incoming goods against shipping manifests and waybills; compiling and managing stock cards for more than 100 types of drugs.
- Perform initial quality control, including checking quantities, packaging conditions, and expiration dates.
- Prepare goods receipt documents for distribution to hospitals, and coordinate with relevant teams using written documentation based on Ms. Excel.
- The medicine receiving and control process is 100% efficient and complies with BPOM standards, inventory data is accurately documented, and supports the smooth distribution of 80+ types of medicines to hospitals without any audit findings of non-compliance.

Renewable Energy – Amati Indonesia

[August – January 2024]

- Develop a comprehensive budget plan worth IDR 600 million that covers the initial capital requirements for the construction of a micro-hydro power plant, installation of a hydroponic system, operational costs, and long-term revenue projections, while ensuring alignment between technical aspects and revenue.
- Conduct a financial feasibility study and evaluate the economic benefits of the project, cost efficiency, and long-term sustainability, as well as identify potential funding sources (investors, grants, CSR, or loans), establish a budget allocation strategy, and analyze financial risks arising from price fluctuations, maintenance costs, and market uncertainty. Demonstrate through the feasibility study that ideas, concepts, and cost and technical designs are structured optimally with up to 85% accuracy.
- Analyze PLTMH power calculations (water flow, elevation, efficiency) for kWh estimates, hydroponic electricity needs, and their impact on financial feasibility, specifically in Poso, Central Sulawesi.

Laboratory Assistant Inorganic Chemistry– Semarang State University

[August – December 2024]

- Support 60 students who will begin R&D activities in preparing, managing, and ensuring the readiness of laboratory equipment and materials as needed.
- Responsible for implementing raw material selection and initial quality control by monitoring the quality, use, and suitability of materials for research purposes.
- Preparing and verifying specific MSDS reviews prior to use, guiding the use of testing methods in accordance with SOPs, recording data on material use and equipment conditions, and performing maintenance and calibration of laboratory equipment.
- Successfully developed laboratory activities to run safely and in a standardized manner with 95% SOP compliance, 90% practicum success, and 100% documentation accuracy, thereby supporting the smoothness and reliability of the R&D process.
- Guided students in analytical and experimental methods, contributing to 90% practicum success.
- Recorded laboratory usage and experimental data accurately to support R&D documentation and traceability.
- Collaborated with laboratory teams to maintain laboratory readiness and support research activities.

Research and Development (R&D) – National Research and Innovation Agency (BRIN)

[February – August 2024]

- Assist in the design, formulation, validation, and stability testing plans in accordance with 2 research topics being developed by the research team.
- Conducted analysis of material and equipment quality standards to support the development of medical manufacturing materials, including the preparation of chemicals, samples, and laboratory equipment in compliance with GMP and GLP standards.
- Performed systematic recording of experimental results in workbooks and log sheets as official research documentation, while maintaining laboratory cleanliness, safety, and organization in accordance with 5R principles.
- Coordinated with other cross-divisions such as field supervisors, characterization technicians, and research partners to address technical challenges and report interim research findings; actively participated in research group discussions to evaluate research progress, methodology, and preliminary results.
- Conducted scientific literature reviews to establish theoretical frameworks supporting data analysis and interpretation of results.
- Processed and transformed raw experimental data into structured datasets using data analysis and visualization software [\[Certificate\]](#).
- Performing raw material selection by reviewing technical specifications and MSDS to ensure that materials and laboratory equipment are safe, meet standards, and support R&D activities.
- Supported method transfer and method alignment between QC and R&D to ensure reproducibility and reliability of analytical results.

TRAINING AND CERTIFICATION

Kementerian Tenaga Kerja

[September 2025]

- General Occupational Safety and Health Expert, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 22000:2018, FSSC 22000, Health & Safety Management System Based on SMK3 PP No. 50 Tahun 2012.

PT. Mersifarma

[Februari-Maret 2026]

- CPOTB, GLP, dan GMP.