

BUDI MAHDYANTO

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Work Experience

PT Novell Pharmaceutical Laboratories

Bogor

Quality Control Staff Antiviral

May 2025 – Present

- Routinely operate, maintain, and troubleshoot High-Performance Liquid Chromatography (HPLC) and Ultra High-Performance Liquid Chromatography (UHPLC) instruments for the analysis and quality testing of raw materials, intermediate products, and final products.
- Proficient in processing and interpreting analytical chromatogram data from HPLC instruments using LabSolution software and UHPLC instruments utilizing Chromeleon software.
- Perform meticulous processing, validation, and accurate reporting of all analytical data to support timely decision-making regarding product release.
- Develop, coordinate, and manage the daily analysis schedule for the analyst team to ensure efficient laboratory operations and on-time completion of all testing requirements.
- Addressed significant delays in UHPLC data reporting due to high sample volume by streamlining the post analysis workflow and implementing standardized, partially automated reporting templates, successfully reducing the data reporting turnaround time by 20% and accelerating product release.

PT Saraswanti Indo Genetech (SIG)

Bogor

Laboratory Analyst

Nov 2019 – Nov 2020

HPLC and Spectrophotometer Instrument Laboratory Division

- Performed routine chemical analyses of compounds such as ammonium (NH_4), hydroquinone, and amino acids using HPLC, LC-MS, and UV-Vis spectrophotometry, ensuring accuracy and consistency in results.
- Operated and maintained analytical instruments in compliance with ISO 17025 and GLP standards, and documented test results for regulatory reporting and quality assurance.

Sample Preparation Division

- Prepared customer samples in accordance with specified testing parameters, ensuring accuracy and consistency throughout the pre-analysis process.
- Coordinated the distribution of prepared samples to relevant laboratory divisions, supporting efficient workflow and timely analysis.

Badan Riset dan Inovasi Nasional (BRIN)

Bandung

Student Researcher

Feb 2024 – Jun 2024

- Assigned to a research initiative focused on sustainable energy solutions, specifically targeting the development of efficient electrocatalysts for hydrogen production.
- Conducted in-depth research on the synthesis of Nickel-Triazole-based Metal Organic Frameworks (Ni-MOFs) as potential electrocatalysts for the Hydrogen Evolution Reaction (HER). Employed advanced characterization techniques such as XRD, SEM, BET, and electrochemical analysis to evaluate the structural, morphological, and catalytic properties of the materials.
- Successfully identified a Ni-Triazole MOF configuration with promising HER performance, contributing to ongoing efforts in developing cost-effective, non-precious metal catalysts for green hydrogen production. Findings supported further experimental iterations and were considered for publication by the research team.

Laboratorium Kimia FMIPA UNNES

Semarang

Laboratory Assistant

Nov 2022 – Aug 2023

- Supervised and mentored students during chemistry practical sessions, providing guidance on experimental procedures and techniques.
- Designed, prepared, and maintained laboratory experiments and materials to support effective hands-on learning.

- Enforced strict adherence to laboratory safety protocols, ensuring a safe and compliant working environment.

Education

Universitas Negeri Semarang Semarang
Bachelor of Science, Chemistry Aug 2021 – Jan 2025
 Grade: 3,92 / 4.00

- Thesis Title “Synthesis of Dendritic Nickel-Triazol Metal Organic Framework Electrocatalyst and Catalytic Activity in Hydrogen Evolution Reaction”.

SMK-SMAK Bogor (4-year Chemical Analyst Vocational School) Bogor
Chemical Analyst 2016 – 2020

- Competent in instrument analysis (Atomic Absorption Spectrophotometer, High Performance Liquid Chromatography, Gas Chromatography), microbiology, and conventional (gravimetry and volumetry) recognized by professional certification bodies P-1 SMAKBO.

Volunteering

Kuliah Kerja Lapangan (KKL) Prodi Kimia UNNES Semarang
Leader Sep 2023 – Feb 2024

- Led a team to organize and execute industrial field visits to 8 companies.
- Managed event logistics, coordination, and stakeholder relations.

Lomba Karya Tulis Ilmiah Mahasiswa (LKTIM) Semarang
Equipment Division Coordinator Nov 2022 – Aug 2023

- Oversaw equipment logistics and successfully optimized inventory management systems.

Olimpiade Kimia Universitas Negeri Semarang (OKINES) Semarang
Public Relations Division Staff Mar 2022 – Oct 2022

- Promoted the event and facilitated communication with participants and sponsors.

Honors & awards

Final Year Project & Postgraduate: Research & Innovation Poster Competition (RIPC)
Gold Medal Malaysia, 19 Sep 2023

- International research and innovation poster competition with the title Cobalt-Porphyrin Modified Graphene Oxide Electrocatalyst for The Methanol Oxidation Reaction.

Projects

Cobalt-Porphyrin Modified Graphene Oxide Electrocatalyst for The Methanol Oxidation Reaction
Lecturer Research Semarang, Jun 2023 – Aug 2023

- Researched, successfully synthesized, and developed cobalt-porphyrin-based electrocatalysts as a cost-effective alternative to platinum (Pt) for methanol oxidation, supported by electrochemical testing and material characterization. Skills
- Conducted research, performed data analysis using tools like OriginLab, Excel, ImageJ, Rietica, and Nova 2.1, and reported findings using Microsoft Office; presented results effectively in both individual and team settings.
- Operated a range of laboratory instruments (LC-MS, HPLC, GC, UV-Vis, FT-IR, AAS, Potentiostat) while supporting project planning, execution, and management to ensure timely and accurate outcomes.