

DIMAS ISWAN AHMADI

Analytical Development Analyst | Testing Methods Development

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Tangerang, Indonesia

Profesional Summary

Bachelor's of Science in Chemistry with professional experience in analytical laboratory testing, method development, and instrumentation-based analysis. Experienced in analytical troubleshooting, data interpretation, and laboratory testing using analytical instruments in industrial and research environments. Committed to analytical Method development, validation, and continuous improvement in pharmaceutical quality systems

Skills

Analytical Instrumentation: HPLC | UV-Vis | ICP-OES | FTIR | XRD | XRF | GC

Analytical Expertise: Testing Method Development | Validation | Troubleshooting | Data Interpretation

Laboratory & Quality Systems: GMP | GLP | ISO 17025 | Data Integrity | Kaizen | OOS Investigation

Software: Microsoft Office | OriginLab | Chems sketch

Education

Bachelor's Degree in Chemistry

2020-2024

Universitas Islam Negeri Syarif Hidayatullah Jakarta - South Tangerang City, Indonesia

- Undergraduate Thesis: Hydrocracking Hydrotreated Vegetable Oil (HVO) Using Catalyst NiW/BEA-Al₂O₃: A Case Study in PT Pertamina (Persero)
- Relevant Cousework: Food Chemistry, Chemical Process Industry, Qualitative & Quantitative Analytical Chemistry, Environmental Chemistry, Chemical Laboratory Management, and Spectroscopy Instrument
- GPA : 3,50/4,00
- Achievement:

Finalist - Indonesia Research & Innovation Fair (IRIFair) BRIN 2025

Presented scientific research related to catalyst development and analytical characterization in a national-level research and innovation competition organized by BRIN.

Work Experience

Analytical Development Analyst

Dec 2024 - Present

PT Imedco Djaja - Tangerang Regency, Indonesia

- Developed and optimized testing methods for pharmaceutical products using analytical laboratory instruments include HPLC, UV-Vis, FTIR, and ICP-OES.
- Performed analytical troubleshooting and instrument parameter adjustments to improve testing reliability, data accuracy, and analytical performance.
- Conducted analytical method validation and verification in accordance with pharmaceutical quality procedures and laboratory standards.
- Performed analytical testing, data interpretation, and result evaluation to support product development and laboratory activities.
- Collaborated with Quality Control teams during analytical method transfer and implementation processes.
- Maintained laboratory documentation and analytical records in compliance with pharmaceutical quality systems and standard operating procedures.

PT Imedco Djaja is a supplement and pharmaceutical manufacturer headquartered in Cipondoh, Tangerang Regency, Indonesia.

Chemist Intern

Sep 2023 - Aug 2024

Research Technology and Innovation PT Pertamina (Persero) - East Jakarta, Indonesia

- Developed and optimized SAPO-34 zeolite formulations through hydrothermal synthesis to improve catalyst crystallinity and product yield.
- Performed material characterization using XRD and XRF to evaluate crystallinity, elemental composition, and catalyst properties.
- Conducted analytical data collection, interpretation, and evaluation to identify the optimum SAPO-34 formulation.
- Participated in hydroprocessing catalyst development projects, including hydrodemetallization,

- Participated in hydroprocessing catalyst development projects, including hydrodemetallization, hydrocracking, and hydroisomerization applications.
- Characterized catalyst materials using XRD, XRF, Surface Area Analyzer (SAA), and NH₃-TPD instruments to assess catalyst performance and physicochemical properties.
- Interpreted chromatographic data generated by Gas Chromatography (GC) for fuel product analysis and catalyst performance evaluation
- Conducted an undergraduate research project on Hydrocracking Hydrotreated Vegetable Oil (HVO) using NiW/BEA-Al₂O₃ catalyst, achieving an A (100/100) evaluation from supervisors and examiners.

Research Technology and Innovation (RTI) is one of PT Pertamina's functions, serving as the vanguard of energy development and innovation through technology.

Organic Chemistry Laboratory Assistant

Sep 2022-Jan 2023

Universitas Islam Negeri Syarif Hidayatullah Jakarta - North Tangerang, Indonesia

- Supervised organic synthesis laboratory sessions and guided students in conducting experiments and analytical procedures.
- Delivered technical presentations and laboratory briefings to 52 chemistry students, strengthening scientific communication and instructional skills.
- Evaluated laboratory reports and student performance to ensure understanding of experimental concepts and analytical results.
- Coordinated laboratory reagents, consumables, and equipment requirements for 12 student teams to support efficient laboratory operations.
- Assisted in maintaining laboratory equipment functionality and operational readiness, including routine checks and laboratory preparation activities.

Universitas Islam Negeri (UIN) Syarif Hidayatullah Jakarta is a university with a vision of achieving a global reputation, emphasizing the integration of Islamic studies, Indonesian studies, and science.

Training Experience and Certificate

Instrumentation & Analytical Techniques

- High Performance Liquid Chromatography (HPLC) - **TemanLab**
- Fourier Transform Infrared Spectroscopy (FTIR) - **PT Ditek Jaya**
- Analytical Development in Pharm Industry - **TemanLab**
- X-Ray Fluorescence (XRF) - **TemanLab**
- X-Ray Diffraction - **UIN Jakarta Webinar**

Laboratory Quality & Compliance

- Good Manufacturing Practice - **PT Imedco Djaja**
- Good Laboratory Practice (GLP) - **DDSAZ E-Learning Academy**
- Data Integrity - **PT Imedco Djaja**
- Out of Specification (OOS) - **PT Imedco Djaja**
- ISO 17025:2017 (General Requirements for the Testing and Calibration Laboratories) - **DDSAZ E-Learning Academy**

Quality Management Systems

- ISO 9001:2015 (Quality Management Systems) - **Mindo Education**
- ISO 45001:2018 (Occupational Health and Safety Management Systems) & SMK3 PP No. 50 Tahun 2012 - **Mindo Education**
- ISO 14001:2015 (Environmental Management Systems) - **Mindo Education**

Organization

President in Event “Find Your Chemistry”

Mar 2022

Himpunan Mahasiswa Kimia (HIMKA) - North Tangerang, Indonesia

- Lead the project to prepare the entire event program.
- Lead and evaluate the entire department of 25 members.
- Coordinate with all divisions to ensure the event's success.

Find Your Chemistry is a talk show held online via Zoom. The event aims to provide students with insights into chemistry fields of interest. Furthermore, it aims to provide an overview of research, internships, and future work implementation in the chemistry field.