

HILMI IZDIHAR EFENDI

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Detail-oriented and results-driven chemistry degree graduate equipped with a comprehensive background in fundamental and applied chemistry. Proven capability in executing complex laboratory protocols, quantitative data analysis, and innovative research aimed at problem-solving. Demonstrates a strong balance between independent project management and collaborative synergy, eager to leverage technical insights to drive efficiency and technological innovation in the chemical sector.

FORMAL EDUCATION

SMA Negeri 8 Jakarta

Aug '19 — Jul'22

IPB University

Aug '22 — Aug '26

Chemistry Major

GPA : 3.61 / 4.00

Thesis : Synthesis of N,S Co-Doped Carbon Dots from Coconut Water and Evaluation of the Fluorescence Response toward Hg^{2+} Ions

EXPERIENCE

PT Indofarma Tbk

R&D Intern

Oct '25 — Nov '25

- Assisted in the formulation and development of pharmaceutical products during the RnD process.
- Performed physical and chemical quality evaluations
- Assisted in pilot-scale manufacturing trials and monitored critical production parameters for new product development.

Tropical Biopharmaca Research Center

HPLC Analyst Intern

Aug '25 — Oct '25

- Operated HPLC for qualitative and quantitative analysis of chemical samples.
- Prepared samples, calibration standards, and mobile phases according to SOP.
- Ensured compliance with GLP and laboratory quality standards.

Surfactant and Bioenergy Research Center

Oil Analyst Intern – Storage Test

Jun '24 — Jul '24

- Conducted storage stability tests on oil samples to assess quality over time.
- Analyzed physical and chemical properties of oils using laboratory techniques.
- Documented and interpreted experimental results to support research and product development.

International Conference on Biomass and Bioenergy 2024

Committee Member

Aug '24

- Assisted in organizing an international academic conference focused on biomass and bioenergy advancements.
- Coordinated logistics, managed communication with speakers and participants, and ensured smooth event execution.

IPB University

Laboratory Teaching Assistant – General Chemistry

Jan '24 — Jun '26

- Guided and mentored over 100 undergraduate students across multiple lab groups in a single semester in laboratory experiments and safety procedures.
- Maintained compliance with laboratory safety protocols while handling specialized chemicals and analytical equipment.

Laboratory Teaching Assistant – Inorganic Chemistry

Jan '25 — Jun '26

- Mentored and supervised 80 chemistry major students over 2 consecutive semesters in higher-level inorganic chemistry experiments and complex theoretical concepts
- Ensured laboratory safety compliance and proper handling of specialized chemicals and equipment.

CERTIFICATION

- Halal Supervisor Training (IHATEC)
- Good Laboratory Practice and Data Integrity Training (TemanLab)
- Validation and Verification of Laboratory Test Methods Training (TemanLab)
- Quality Management for Operational Excellence (Project Management Institute)
- Good Manufacturing Practice (GMP) in Pharmacy Industry (TemanLab)
- Inductively Coupled Plasma–Mass Spectrometry (ICP–MS) Training (TemanLab)
- Gas Chromatography Mass Spectrometry Training (TemanLab)
- Excel Essential Training (Microsoft 365)
- TOEFL ITP – 623/677

LANGUAGE

Bahasa Indonesia (Native)

English (Upper-Intermediate)