

NAFLAH AZ-ZAHRA

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Malang, Indonesia

SUMMARY

Laboratory Analyst with hands-on experience in operating, maintaining, and calibrated advanced analytical instruments, including HPLC, FTIR, XRF, ICP-OES, UV-Vis Spectrofotometry, BET, AAS, and PSA. Skilled in laboratory data management and ensuring compliance with ISO/IEC 17025, ISO 45001, and ISO 14001 standards. Present strong ability to analyze complex data, optimize laboratory process, and communicate effectively with internal teams and customers.

WORK AND INTERNSHIP EXPERIENCE

PT. Genecraft Labs – Lampung Selatan

Dec 2025–June 2026

Chemical Analyst Intern

- Operated, maintained, calibrated, and troubleshoot 20+ sample per day using HPLC, FTIR, BET, FESEM-EDX, AAS, UV-Vis, and XRF.
- Performed accurate sample and standards preparation prior to analysis with implementation of teamwork optimized workflows and efficiency improvements while maintaining adherence to ISO/IEC 17025, ISO 45001, and ISO 14001 standards.
- Analyzed complex analytical data and communicated findings effectively with cross-functional team and stakeholders.

Badan Riset dan Inovasi Nasional (BRIN) – Tangerang Selatan

Feb 2025–Jul 2025

Undergraduate Research Assistant

- Conducted literature reviews of 30+ scientific publications to map current research trends in the topic focused.
- Contributed to the development of synthesis methods and analysis of electrocatalyst materials, including laboratory procedure optimization.
- Processed and analyzed experimental data using software & instruments (Microsoft Office).

PPSDM MIGAS – Kabupaten Blora

Aug 2024–Aug 2024

Laboratory Analyst Intern

- Collected 10+ environmental water samples per week in accordance with SNI procedures, ensuring accurate labelling and preservation.
- Performed field measurements (pH, temperature, turbidity, BOD, COD, DO, TSS, alkalinity, and ammonia) using titration & UV-Vis methods.
- Conducted quantitative analysis of metal content in organic samples using ICP-OES with 10+ test parameters.
- Compiled laboratory test reports for environmental quality evaluation.

PT Pertamina Hulu Kalimantan Timur (PHKT) – Balikpapan

Jan 2024–Jan 2024

Quality Assurance Intern

- Performed qualitative detection of anions in 20+ inorganic samples and measured anion concentrations in organic samples using UV-Vis.
- Identified 20+ sample metal concentrations in inorganic samples using ICP-OES
- Delivered laboratory analysis results through written reports and oral presentations to the QA team.

EDUCATION

Institut Teknologi Sepuluh Nopember (ITS)

Aug 2021 – Sep 2025

Bachelor of Science in Chemistry

- Presenter The Joint International Conference on Innovation in Education, Science and Culture (ICIESC 2024) & Applied Sciences and Material Applications (ICASMA 2024)
- Participated in an international short program with Universiti Sains Malaysia 2024

ORGANIZATIONAL AND COMMITTEE EXPERIENCE

Himpunan Kimia ITS – Surabaya

Staff & Expert Staff, Department of Skill and Research

Apr 2023 – Feb 2025

- Reviewed, recorded, and managed all official documents of the Skill and Research (SR) department, including proposals, reports, and internal archives, ensuring format accuracy and organized databases.
- Collected and analyzed feedback data from ± 100 participants per event, then compiled evaluation reports with recommendations for quality improvement.

SKILL AND COMPETENCIES

Toolset	:	• Microsoft Office (Excel, Word, PowerPoint)
Language	:	• Indonesian: Native proficiency • English: Professional working proficiency (ITS EFL: 512).