

BALQIS MAHMUDAH

CHEMISTRY - FRESH GRADUATE



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PROFILE

A graduate with a degree in Chemistry who is interested in the fields of Quality Control (QC), Quality Assurance (QA), Research and Development (R&D), and laboratory analysis. Possesses research experience at BRIN and a QA placement in a pharmaceutical laboratory, with expertise in proximate analysis, characterisation of materials using UV-Vis, FTIR, XRD, BET and GC-FID, data validation, document review, document control, and the application of data integrity principles. Possesses strong analytical skills, is meticulous, and is able to work in accordance with laboratory procedures and quality management system standards.

EXPERIENCE

Internship – National Research and Innovation Agency (January 2024 – February 2024)

- Synthesising biomass-based biochar via pyrolysis as a base material for catalyst research.
- Carrying out proximate analysis, including moisture content, ash content, volatile matter content and fixed carbon content, to evaluate the characteristics of the biomass.
- Preparing samples, recording data and analysing the results of laboratory tests.
- Compiling a report on the research findings in accordance with laboratory research procedures.

Student Research – National Research and Innovation Agency (September 2024 – April 2025)

- Synthesising biomass-based titanium-modified biochar catalysts for biodiesel production via the esterification reaction.
- Operating the pyrolysis reactor and pressure reactor during the catalyst synthesis process.
- Carrying out catalyst characterisation using XRD, FTIR and BET, and biodiesel product characterisation using GC-FID.
- Processing and interpreting the characterisation data using OriginPro and HighScore.
- Compiling research reports and assisting with the preparation of scientific articles.

Laboratory Assistant – Integrated Laboratory Centre, UIN Jakarta (March 2024 – July 2024)

- Supervising students practical sessions in accordance with laboratory procedures.
- Preparing materials, standard solutions and practical session requirements prior to the session, as well as standardising solutions and ensuring that laboratory equipment is ready for use.
- Conducting pre- and post-practical tests and assessing students' practical reports.
- Ensuring that health and safety procedures are followed and that order is maintained during laboratory sessions.

QA Internship – KBIC PT. Pharma Metrics Labs (February 2026 – April 2026)

- Validate and verify analytical data in Excel and check compliance with reference documents (Analytical Method/MA) to ensure accuracy, consistency and data integrity.
- Reviewing and controlling QA documents, including checking compliance, version control, and reporting non-conformities via the deviation and CAPA systems.
- Supporting equipment qualification and calibration activities, as well as temperature monitoring (data loggers, alarm tests, and temperature deviation justifications) in accordance with laboratory quality standards.

EDUCATION

Syarif Hidayatullah State Islamic University Jakarta | September 2021 - August 2025

Bachelor of Science (Chemistry) S.Si, 3.44/4.00

ABILITY

- **Software:** Microsoft Office, Microsoft Excel (Data Checking, Formula Validation), Origin and High Score
- **Soft Skills:** Problem solving, Teamwork, Time management and discipline
- **Hard Skills:** QA Documentation & Document Control, UV-Vis Spectrophotometer, HPLC, GC-FID, AAS, Hazardous Materials Handling, Laboratory Assistant, Scientific Research, and Laboratory Management