

ALWI ULWANUL ALIM

081215611469 | alwiulwanulalim30@gmail.com | www.linkedin.com/in/alwi-ulwanul-alim-112a8a247

Jalan Lb Lio Rt 01 Rw 11, Balumbang Jaya, Bogor Barat-Kota, Kota Bogor, Jawa Barat, 16166

Bachelor's degree graduate in Chemistry from IPB University with practical laboratory experience gained through academic research, laboratory internships, and national competition programs. Experienced in operating laboratory instruments, laboratory techniques, sample preparation, and statistical data analysis to support laboratory testing and research activities. Familiar with laboratory documentation practices and standard operating procedures (SOPs). Experienced working independently and collaboratively in laboratory and research environments. Seeking an opportunity to apply practical knowledge and laboratory skills to support laboratory analysis, quality control, and research and development (R&D) in the chemical industry.

Work an Research Experiences

Departement of Chemistry, IPB University - Bogor, Indoensia

Feb 2026 - Jun 2026

Research Student - Undergraduate Thesis Research

- Prepared and optimized the raw material composition (tapioca, monomer, and crosslinker) for the superabsorbent polymer synthesis process
- Conducted water absorption (swelling capacity) tests on various composition variations of the synthesized products
- Interpreted FTIR and SEM characterization data to confirm the functional groups and surface morphology of the resulting polymer

PT. Syslab, Sentul - Bogor, Indoensia

Sep 2025 - Nov 2025

Laboratory Analyst - Internship

- Analyzed samples and processed data to ensure accurate and reliable results.
- Developed data visualizations using Excel to support presentations delivered to company stakeholders.
- Contributed to clearer and more effective communication of data insights across teams.

Departement of Chemistry, IPB University - Bogor, Indoensia

Jan 2025 - Jun 2025

Research Student - Integrated Laboratory Practicum 1

- Modified natural Sukabumi zeolite with nickel metal as a catalyst for the synthesis of 5-Hydroxymethylfurfural (5-HMF)
- Synthesized 5-HMF from glucose/fructose precursors using the reflux method
- Characterized the synthesis products using XRD to identify the crystal structure and composition

Polytree Group - Bogor, Indoensia

Feb 2024 - Oct 2024

Technical Product Specialist

- Formulated a biodegradable biopolybag based on arrowroot starch with the addition of C-Dot additives to enhance its function and benefits for plant growth
- Evaluated production results and conducted quality checks to prevent manufacturing defects
- Marketed and sold the produced biopolybags to farmers and environmentally conscious businesses as part of the product commercialization strategy

Departement of Chemistry, IPB University - Bogor, Indoensia

Jan 2024 - Jun 2024

Research Student - Project Based Learning

- Cultivated pakcoy plants using a wick hydroponic system with Cu-containing micro fertilizer solution
- Measured and analyzed the Cu absorption rate by pakcoy plants at specific time intervals
- Analyzed test data to evaluate the efficiency of Cu absorption on pakcoy plant growth

Education Level

IPB University - Bogor, Indonesia

Aug 2022 - Aug 2026

Bachelor of Chemistry, 3.04/4.00

- Undergraduate thesis research focusing on the synthesis and characterization of tapioca-based superabsorbent polymers.
- Participated in Pekan Kreativitas Mahasiswa (PKM) and Pekan Ilmiah Mahasiswa Nasional (PIMNAS) — National Level
- 2nd Place Winner, Pekan Ilmiah Mahasiswa Nasional (PIMNAS)

Organizational and Volunteering Experience

Ikatan Mahasiswa Kimia (IMASIKA) 2025 - Bogor

Jan 2025 - Dec 2025

Head of Arts, Culture, and Sports Division

- Led and supervised division staff in executing work programs
- Assisted in planning and organizing division work programs
- Resolved issues and challenges within the division and its programs

Ikatan Mahasiswa Kimia (IMASIKA) 2024 - Bogor <i>Staff, Arts, Culture, and Sports Division</i> - Carried out division work programs - Served as Program Coordinator (Project Lead) for a division work program	Jan 2024 - Dec 2024
Hyperchem 2024 - Bogor <i>Head of Organizing Commite</i> - Supervised and evaluated the performance of committee members across all divisions. - Provided strategic guidance to the team, ensuring smooth program execution and successful achievement of event objectives.	Apr 2024 - May 2024
Pekan Sains Nasional 2024 - Chemistry Challenge - Bogor <i>Logistics and Transportation Staff</i> - Managed event supplies and equipment, ensuring the availability of stock throughout the event - Responsible for coordinating transportation for participants and lecturers throughout the event	Sep 2024 - Oct 2024
Hyperchem 2023 - Bogor <i>Competition Division Staff</i> Organized and was responsible for the smooth running of matches/competitions	Apr 2023 - May 2023

Competitions, Achievements, and skills

- Competitions:** Program Kreativitas Mahasiswa (PKM) 2024 | Pekan Ilmiah Mahasiswa Nasional (PIMNAS) 2024
- Achievements:** 2nd place in the Presentation Category under the Entrepreneurship field at Pekan Ilmiah Mahasiswa Nasional (PIMNAS) 2024 | Participant in the PKM-K Category at Pekan Ilmiah Mahasiswa Nasional (PIMNAS) 2024 | Recipient of Program Kreativitas Mahasiswa -Kewirausahaan(PKM-K) Funding 2024
- Technical Skills:** Laboratory Techniques | Statistical Data Analysis | Laboratory Documentation
- Software:** Mlcrosoft Excel | Minitab | OriginPro | SPSS | Design-Expert | Orange Data Mining | ChemSketch | Avogadro
- Projects:** Developing water-absorbing and water-retaining materials to support environmental revegetation in mining areas 2026 | Developing eco-friendly planting media containers that are beneficial for plant growth 2024
- Webinars Attended:** Navigation natural pigments in halal industry 2026 | HKI-Inorganic Talk Series 6 2025 | Indonesia's Leading Financial Literacy 2024 | Became popular thanks to local content 2023