

SITI ALIFA OVINDRIANI

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PROFILE

Chemical Engineering graduate from Sriwijaya University (GPA 3.83) with experience in laboratory analysis, research, and industrial processes. Former General Chemistry Laboratory Assistant and intern at PT Tanjung Enim Lestari Pulp and Paper, with biodiesel research published in an international journal. Skilled in quality control, laboratory analysis, Microsoft Office, and familiar with SOPs, GMP, HACCP, ISO 22000, FSSC 22000, and K3.

EDUCATION

Sriwijaya University - Indralaya, South Sumatra

Aug 2021 – July 2025

Bachelor of Chemical Engineering | GPA : 3.83 / 4.00

- Thesis: Preliminary Design of an Acetaldehyde Production Plant with a Capacity of 60,000 metric tons/year Using the Ethanol Dehydrogenation Process.

WORK EXPERIENCE

PT. Pulp and Paper Tanjung Enim Lestari – Tanjung Enim, South Sumatra

June – Aug 2024

Internship

- Analyze the effect of ClO_2 use on the Kappa Number, brightness, and viscosity of pulp during the D0 stage of the bleaching process.
- Evaluate process data to determine the effectiveness of ClO_2 use on pulp quality.
- Observe the pulp production and bleaching processes to understand product quality parameters.
- Prepare a technical report to serve as a basis for evaluating the bleaching process.

General Chemistry Laboratory - Indralaya, South Sumatra

Sep 2022 – June 2024

Laboratory Assistant

- Supported the conduct of General Chemistry lab sessions for more than 300 students.
- Prepared chemicals, reagents, and laboratory equipment as needed for the lab sessions.
- Ensured compliance with SOPs and health and safety procedures during laboratory activities.
- Provided guidance on the use of laboratory instruments and evaluated lab reports.

ORGANIZATIONAL EXPERIENCE

Sriwijaya University Chemical Engineering Student Association– Indralaya, South Sumatra

Head of the Soft Skills Division, Academic Department

Jan 2023 – Jan 2024

- Collaborated with the organizing committee and guest speakers in organizing soft skills development programs for students.
- Coordinated Aspen HYSYS and ANSYS training sessions, as well as scientific paper workshops attended by over 50 participants.
- Served as Secretary for the Sriwijaya International Chemical Engineering Competition (SICHECO), which attracted more than 500 participants, as well as an international webinar attended by participants from more than three countries.

Sriwijaya University Chemical Engineering Student Association– Indralaya, South Sumatra

Academic Department Staff

Jan 2022 – Jan 2023

- Led the implementation of the “Distinguishing Chemical Engineering Sharing Session,” which featured scholarship recipients as guest speakers to share their experiences and insights with chemical engineering students.

- Collaborated in the planning and implementation of the Academic Department's work program to support students' academic development and skill-building.

Sriwijaya University Science and Engineering Community (KST FT UNSRI) – Indralaya, South Sumatra

Human Resources Development Department Staff

Jan 2022 – Jan 2023

- Served as Master of Ceremonies for the Public Speaking Internship Class, Volume 3.
- Supported the recruitment of new members and actively participated in the implementation of the work program.

PROJECT EXPERIENCE

Energy Engineering Laboratory, Waste Treatment Engineering – Sriwijaya University

Researcher

April – Oct 2024

- Investigating the performance of the K_2CO_3 –Glycerol Deep Eutectic Solvent (DES) in the biodiesel production and purification processes.
- Designing experiments, conducting tests, and analyzing research data.
- Producing biodiesel with a methyl ester content of 99.5% and demonstrating the effectiveness of the K_2CO_3 –Glycerol DES as an alternative solvent in the biodiesel purification process.

Community Service Program – Banyuasin, South Sumatra

Team Members

May - Oct 2024

- Contributed to the implementation of appropriate technology for clean water treatment at the Darul Qur'an Al-Hanif Islamic Boarding School in Banyuasin, South Sumatra.

Industrial Chemistry Laboratory – SMK 'Aisyiyah Palembang

Researcher

March 2021

- Produce Virgin Coconut Oil (VCO) and make opaque soap, transparent soap, and teak leaf extract soap using various laboratory equipment.
- Conduct product quality testing based on pH and physical characteristics to produce soap that meets the expected quality standards.

Industrial Chemistry Laboratory – SMK 'Aisyiyah Palembang

Researcher

Oct – Nov 2020

- Designing and assembling equipment and producing liquid organic fertilizer from household waste consisting of 50% banana peels and EM4 as a bioactivator.
- Conducting product quality analysis to evaluate the characteristics of the resulting liquid organic fertilizer.

PUBLICATION

- Ovindriani, S. A., et al. (2025). *Performance of K_2CO_3 –Glycerol Deep Eutectic Solvent as Catalyst, Co-catalyst, and Co-solvent in Biodiesel Production*. RSC Advances. <https://doi.org/10.1039/d5ra09382a>

SKILLS, CERTIFICATIONS, AND ACHIEVEMENTS

- **Languages:** Indonesian (Fluent), English (Intermediate – TOEFL ITP 507)
- **Soft Skills:** Analytical Thinking, Problem Solving, Leadership, Communication, Teamwork, Time Management, Adaptability, Attention to Detail.
- **Technical Skills:** Microsoft Office (Word, Excel, PowerPoint), Aspen HYSYS, Matlab, Scilab dan Canva.
- **Certifications :** GMP, HACCP, FSSC 22000, ISO 22000
- **Achievements:** Top 50 in the Sriwijaya Chemical Engineering Competition (2022), Top 10 in the Sriwijaya University Engineering Community Student Creativity Competition (2022), Top 10 in the regional Fordigi BUMN Startup Incubator (2023), and Favorite Presentation at the local level as voted by the audience at the same event.