

RIDHA RAHMAWATI

Chemical Engineering Graduate

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PROFESSIONAL SUMMARY

Chemical Engineering fresh graduate with internship experience in manufacturing operations, laboratory testing, process monitoring, and technical documentation. Skilled in data analysis, quality inspection, process verification, and laboratory testing through academic research and manufacturing exposure. Detail-oriented, analytical, and eager to contribute to quality assurance activities by supporting inspection, sampling validation, and continuous improvement in manufacturing processes.

EDUCATION LEVEL

Bachelor of Chemical Engineering <i>University of Lampung</i>	(August 2021 – January 2026) <i>Bandar Lampung</i>
- GPA: 3.31/4.00 - Final Project (2026): “Predesign of 2-Ethylhexyl Acrylate Plant from Acrylic Acid and 2-Ethylhexanol with a Capacity of 46,000 Tons/Year (Predesign of Reactor (RE-201))” - Research (2024): “The Effect of Sodium Alginate (SA) and Sorbitol Composition Variations on the Characteristics of Hydroxypropyl Methylcellulose (HPMC)-Based Hydrogel Films Using the Freeze-Thaw Method”	

PROFESSIONAL EXPERIENCE

Production Process Intern <i>PT Indocement Tunggal Prakarsa Tbk</i>	(January 2024 – February 2024) <i>Bogor</i>
- Monitored production process performance and evaluated operational parameters to ensure compliance with quality standards. - Monitored production quality parameters and analyzed process data to verify compliance with operational quality standards. - Collected and analyzed production data to evaluate process consistency and operational performance. - Conducted process evaluation to identify deviations and support continuous improvement initiatives. - Collaborated with process engineers to validate production data and prepare technical documentation supporting quality evaluation.	
Research Project <i>Hydrogel Film Development</i>	(Maret 2024 – Desember 2024) <i>Universitas Lampung</i>
- Prepared HPMC-based hydrogel formulations with different sodium alginate and sorbitol compositions. - Conducted laboratory experiments following established testing procedures. - Evaluated physical characteristics and analyzed experimental results. - Documented findings and interpreted laboratory data to determine formulation performance.	

LEADERSHIP & ORGANIZATION EXPERIENCE

Secretary Department of External Relations <i>Himpunan Mahasiswa Teknik Kimia (HIMATEMIA)</i>	(January 2023 – December 2023) <i>Bandar Lampung</i>
- Received Best Secretary 2023 award in recognition of streamlining office operations and enhancing organizational accountability through the implementation of an efficient record-keeping system. - Managed technical documentation and formal correspondence for a department of 17 staff members. - Coordinated strategic programs, including EXCESS 2023 and SHATOV, ensuring seamless stakeholder communication. - Coordinated communication with university administration, faculty members, and alumni associations to strengthen collaboration and organizational programs. - Represented the organization at the Regional Coordination Meeting (RAKORDA) Region I.	
Executive Secretary <i>Explosion of Chemical Engineering Study Activities (EXCESS)</i>	(November 2022 – June 2023) <i>Bandar Lampung</i>
- Administered a national-scale event budget of IDR 79.7 Million with 100% financial transparency and accuracy. - Orchestrated administrative logistics for high-profile keynote speakers and managed records for IDR 54.7 Million in sponsorship funds. - Streamlined the registration process for over 104 competing teams in national-level science and essay competitions. - Prepared comprehensive Final Accountability Reports (LPJ) to evaluate event performance and improve future program implementation.	

CERTIFICATION & TRAINING

Hard Skill	Quality Inspection, Quality Control, Laboratory Testing, Chemical Analysis, Process Verification, Process Validation, Sampling, Data Analysis, Microsoft Excel, Technical Documentation, GMP, Statistical Analysis, Aspen HYSYS
Soft Skill	Leadership, Teamwork, Time Management, Problem Solving, Communication, Analytical Thinking, Adaptability, Attention to Detail

- Training**
- Quality Control (QC) in Food Industry - Makin Ahli, 2026. [QualityControl](#)
 - Quality Assurance (QA) in Food Industry - Makin Ahli, 2026. [QualityAssurance](#)
 - GMP (Good Manufacturing Practices) - Makin Ahli, 2026. [GMP](#)
 - HACCP (Hazard Analysis and Critical Control Point) - Makin Ahli, 2026. [HACCP](#)
 - ISO 22000 - Makin Ahli, 2026. [ISO22000](#)
 - FSSC 22000 (Food Safety System Certification) - Makin Ahli, 2026. [FSSC22000](#)
 - ISO 14001 - Makin Ahli, 2026. [ISO14001](#)
 - ISO 45001 - Makin Ahli, 2026. [ISO45001](#)
 - SMK3 - Makin Ahli, 2026. [SMK3](#)
 - MMS Future Leader Programme: Upaya Pencegahan Stres Kerja dalam Implementasi K3 di Perusahaan – Mutiara Mutu Sertifikasi, 2026. [K3](#)
 - Software Training Series: Aspen HYSYS - SPE UI SC, 2025. [AspenHYSYS](#)

ACHIEVEMENTS

- Best Graduate - Chemical Engineering, University of Lampung (2026). [GraduationCertificate](#)
- National Participant – SIMCAD (2024). [SIMCAD](#)
- Best Secretary Award – HIMATEMIA (2023). [BestSecretary](#)