

NAGHMAH SYIFA BILQIS

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Tangerang, Banten

I am a Bachelor of Chemistry graduate from University of Lampung (GPA 3.88/4.00) with a strong combination of laboratory expertise, data analysis, and innovative research. Experienced as a Physical Chemistry II Lab Assistant, I have developed spectroscopy (UV-Vis), chromatography (GC), chemical synthesis and catalysis. I hold TOEFL, Chemistry Practicum Assistance, and Microbiological Analysis competence certifications and have conducted research on palm oil conversion and zeolite catalysts. With solid technical skills, leadership, and problem-solving abilities, I am the strongest candidate for the chemical industry and materials research field.

EDUCATION

University of Lampung

2022 - 2026

- Bachelor of Chemistry
- GPA: 3.88 / 4.00 | Certificate of Graduation and Transcript ([s.id/DMwe8](#))

WORK EXPERIENCE

Lab Assistant | Physical Chemistry II ([s.id/wG72v](#))

February - April 2026

- Guiding students by explaining concepts, procedures, and techniques to enhance understanding during the physical chemistry practicum.
- Supervising and evaluating practicum activities to ensure safety while assessing student's comprehension through reports and experiment results.
- Preparing and maintaining laboratory equipment by organizing materials, tools, and ensuring all instruments function properly throughout practicum.

Quality Control Analyst | PT Southeast Asia Pipe Industries

December 2024 - January 2025

- Performed steel pipe tensile testing using a Universal Testing Machine (UTM) to determine Yield Strength, Ultimate Tensile Strength, and Elongation.
- Analyzed and interpreted chemical composition, mechanical property, and microstructural data to evaluate material quality according to ASTM, API, JIS, and ISO standards.
- Applied Pearson correlation analysis to investigate the relationship between chemical composition and mechanical properties.
- Prepared and documented quality control testing reports in accordance with laboratory procedures and safety standards.

Chemistry Tutor | Smart Tower Tutoring Center

July 2024 - April 2025

- Taught Senior High School about chemistry based on student's academic needs and curriculum requirements.
- Explained complex chemistry concepts using clear, systematic, and student-centered teaching approaches.
- Guided students in solving conceptual and quantitative problems, including stoichiometry, solutions, thermochemistry, and equilibrium.
- Prepared learning materials, practice questions, and assessments.

Laboratory Analyst | PT Maju Tambak Sumur

July - September 2021

- Contributed to the development of improved shrimp farming methods through laboratory-based water, sediment, and microbiological quality monitoring.
- Conducted water sampling and analysis at 20+ sampling points across three company branch areas, covering ammonia, NO_2^- , NO_3^- , alkalinity, hardness, and Total Organic Matter (TOM).
- Performed sediment analysis across 10 parameters at five sampling points and microbiological analysis of pond water and shrimp hepatopancreas samples.
- Prepared 24 analytical reports to support decision-making and subsequent treatment of shrimp cultivation ponds.

PROJECT EXPERIENCE

Eco-Green Waste Management Project

September - December 2025

- Contributed to an eco-green waste management project involving conversion of organic and inorganic waste into value-added product.
- Participated in the processing of organic waste into eco-enzyme and compost, including fruit-peel fermentation and composting processes.
- Contributed to plastic waste utilization through pyrolysis, pablostik, and ecobrick production, applying practical waste-conversion techniques.
- Co-authored a national scientific journal publication on eco-green waste management at ChemCafe, Universitas Lampung ([s.id/Cmqqi](#)).

Research | Final Project

October 2025 - June 2026

- Conducted research at the Inorganic/Physical Chemistry Laboratory, to synthesize nitrogen compounds from palm oil methyl ester as corrosion inhibitor.
- Valuated corrosion inhibition performance on mild steel in a CO_2 -containing medium using wheel testing methods.
- Analyzed experimental data and evaluated the effects of process parameters on catalyst performance, product formation, and corrosion inhibition efficiency.

ORGANIZATIONAL EXPERIENCE

Trashranger ([s.id/NVSAL](#))

February - December 2024

- Contributed to environmental and waste management initiatives through community-based activities, collaborating with team members to promote sustainable waste practices and environmental awareness.

Chemistry Student Association (HIMAKI) ([s.id/uPj4Vcem](#))

February - December 2022

- Served as secretariat department member, managed organizational administration and documentation while coordinating with committee members.

CERTIFICATIONS & TRAINING

- Certificate of Competence – BNSP, Microbiological Analysis ([s.id/HRpdo](#)).
- Certificate of English Proficiency – TOEFL Score 480 ([s.id/cpJC8](#)).
- Good Manufacturing Practices (GMP)/CPPOB – BSN, 2026 ([s.id/n6kPT](#))
- Occupational Health and Safety (K3) Management System ISO 45001:2018 – BSN, 2026 ([s.id/wY65E](#))
- Risk Management ISO 31000 – BSN, 2026 ([s.id/5Z71b](#))

PERSONAL SKILL

Soft Skills : Problem Solving, Critical Thinking, Time Management, Communication Skills, Leadership, Teamwork, Adaptability, Attention to Detail, Analytical Thinking, Research Skills.

Hard Skills : Microsoft Office, Laboratory Techniques, Spectroscopy (UV-Vis), Chromatography (GC), Chemical Synthesis, Data Analysis & Interpretation, Instrumental Analysis, Reaction Mechanisms, Catalysis & Material Synthesis.

Languages : Indonesian (Native), English (Intermediate).