

FARAH SHOFIYATUL AZIZAH

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PROFILE

Bachelor's degree in Chemistry from Universitas Gadjah Mada with experience in R&D and Product Development through industrial internship and academic research. Experienced in water-based alkyd resin development and optimization, product performance testing, material characterization, and laboratory data analysis. Skilled in experimental design, laboratory documentation, and Good Laboratory Practices (GLP). With strong analytical skills and solid laboratory capabilities, prepared to contribute to product development and continuous product improvement within the chemical industry.

EDUCATION

Universitas Gadjah Mada – Sleman, DI Yogyakarta

2022 - 2026

Bachelor of Chemistry – Faculty of Mathematics and Natural Sciences | GPA: 3.70 /4.00

INTERNSHIP & ACADEMIC EXPERIENCE

Department of Chemistry – Universitas Gadjah Mada

January 2026 - June 2026

Laboratory Assistant and Teaching Assistant – Physical Chemistry

- Prepared laboratory equipment, chemicals, and experimental setups for undergraduate physical chemistry practical sessions.
- Supported laboratory practical sessions for 80+ students in conducting experiments while ensuring compliance with Good Laboratory Practices (GLP).
- Organized course materials, student records, assessment files, and academic documents for 60+ undergraduate students.
- Evaluated 100+ student assessments, including assignments, quizzes, and examinations under lecturer supervision.

Department of Chemistry – Universitas Gadjah Mada

August 2025 - December 2025

Laboratory Assistant – Basic Chemistry

- Facilitated laboratory experiments for 80+ students in conducting experiments while ensuring compliance with Good Laboratory Practices (GLP).
- Provided guidance on fundamental laboratory techniques, chemical handling, and laboratory safety procedures.

PT Alkindo Mitraraya – Tangerang, Banten

February 2025 - May 2025

Research & Development (R&D)

- Developed and evaluated 10+ water-based alkyd resin formulations for environmentally friendly coating applications by optimizing surfactant composition and formulation parameters.
- Applied formulated resins into coating systems and evaluated viscosity, pH, emulsion stability, drying time, adhesion, hardness, gloss, and water resistance to assess product performance.

RESEARCH EXPERIENCE

Department of Chemistry – Universitas Gadjah Mada

2025 - 2026

Undergraduate Researcher

- Synthesized and characterized g-C₃N₄/Co/TiO₂-HAp photocatalyst using the sol-gel method for visible-light photocatalytic application.
- Optimized catalyst composition and reaction parameters, achieving 99.13% Malachite Green degradation efficiency.
- Analyzed characterization and photocatalytic performance data using XRD, FTIR, DRS UV-Vis, FESEM-EDX, and TEM-SAED.

COMMUNITY SERVICE EXPERIENCE

KKN-PPM Universitas Gadjah Mada

June 2025 - August 2025

Cluster Coordinator & Sponsorship Division Staff

- Coordinated community development programs by managing activities and timelines for a 10-member student team.
- Prepared and distributed 20 sponsorship proposals and securing support from 5 external partners to support program implementation.

ORGANIZATIONAL & COMMITTEE EXPERIENCE

Chemistry Futsal League (CFL) - Keluarga Mahasiswa Kimia (KMK) UGM

June 2024 - October 2024

Fundraising Coordinator

- Developed sponsorship strategies and prepared 50+ partnership proposals.
- Secured collaboration with 15+ sponsors through presentations and stakeholder follow-up.

Keluarga Mahasiswa Kimia (KMK-UGM)

January 2023 – December 2023

Talent and Interest Departement Staff

- Organized 5+ sports and arts events that engaged 100+ Chemistry students, promoting student participation and talent development.
- Coordinated event planning, logistics, and cross-functional collaboration to ensure successful program execution.

CERTIFICATION & TRAINING

- Research & Development (R&D) Training, organized by DDSAZ Lab Academy, with an Excellent rating in August 2026. [Certificate](#)
- Risk Management in External Quality Assurance Training (Proficiency Testing and Interlaboratory Comparison), organized by PT Lab Mania Indonesia, with an Excellent rating in July 2026. [Certificate](#)
- Chemical Oxygen Demand (COD) Analysis Techniques Training, organized by PT Lab Mania Indonesia in collaboration with the Regional Environmental Laboratory (LLHD) of DKI Jakarta, with an Excellent rating in July 2026. [Certificate](#)
- Biological Oxygen Demand (BOD) Analysis Techniques Training, organized by PT Lab Mania Indonesia in collaboration with the Regional Environmental Laboratory (LLHD) of DKI Jakarta, with an Excellent rating in June 2026. [Certificate](#)
- Type B Laboratory Management Training, focusing on Research Management, organized by Universitas Gadjah Mada, with a Very Good rating in August 2025. [Certificate](#)
- Type A Laboratory Management Training, focusing on the importance of health and safety in the laboratory to support chemistry practical sessions, organized by Universitas Gadjah Mada, with a Very Good rating in August 2022. [Certificate](#)

SKILLS

Technical Skills	: Laboratory Testing, Sample Preparation, Experimental Design, Data Analysis, Formulation Development, Formulation Optimization, Material Synthesis, Process Optimization, Material Characterization, and Good Laboratory Practices (GLP).
Laboratory Instruments	: XRD, FTIR, DRS UV–Vis, FESEM–EDX, TEM–SAED, Particle Size Analyzer.
Software & Tools	: Microsoft Office, OriginLab, X'Pert HighScore, ImageJ, ChemDraw.
Soft Skills	: Analytical Skills, Attention to Detail, Problem-Solving, Critical Thinking, Time Management, Teamwork.