

FAHIRA RAHMA

+6285748081273 | fahirar01@gmail.com | www.linkedin.com/in/fahirarahmaa/ | Pekalongan, Central Java (51115)..

Bachelor of Chemistry graduate with a strong foundation in Analytical Chemistry, laboratory research, and Research & Development. Experienced in conducting laboratory experiments, sample preparation, chemical analysis, analytical data processing, and research documentation. Hands-on experience in developing and analyzing natural dye extracts using GC-MS and investigating the composition and potential application of quail eggshell-based materials. Skilled in interpreting analytical results, documenting experimental processes, and preparing technical reports. Detail-oriented, analytical, systematic, and adaptable, with a strong interest in developing a career in Research & Development.

Research Projects

Analysis of Water Extracts from Tegeran and Tingi Wood as Natural Dyes for Rattan | Jun 2026

- Conducted research on the extraction and potential application of natural dye compounds from tegeran and tingi wood.
- Performed sample preparation and extraction of natural dye compounds using laboratory procedures.
- Characterized the resulting extracts using GC-MS (Gas Chromatography–Mass Spectrometry).
- Processed and analyzed GC-MS data to evaluate the chemical composition of the extracts.
- Documented experimental procedures, analytical results, and research findings.

Production of Fire Extinguisher Powder from Quail Eggshells | Dec 2025

- Conducted research on the composition and potential utilization of quail eggshells as a raw material for fire extinguisher powder.
- Investigated and compared the composition of quail eggshells with other animal and eggshell materials.
- Prepared and processed eggshell material into powder for further application.
- Analyzed the composition of the developed material using analytical instruments.
- Developed a technical module documenting the material preparation and production process.

Education

Jendral Soedirman University – Purwokerto, Central Java

Aug 2022 – June 2026

Bachelor of Chemistry, Faculty of Mathematics and Natural Sciences | GPA: 3.29/4.00.

Work / Internship Experience

Regional Health Laboratory of Pekalongan City – Pekalongan, Central Java

July 2024 – Aug 2024

Chemical Laboratory Analyst

- Conducted chemical analysis of water and food samples to evaluate quality parameters and chemical composition.
- Prepared and handled laboratory samples according to established analytical procedures.
- Performed laboratory testing and reviewed analytical results to evaluate data accuracy and reliability.
- Verified and processed analytical data before reporting research/testing findings.
- Recorded and compiled experimental and analytical results into systematic laboratory reports.
- Maintained laboratory documentation and records throughout testing activities.
- Applied laboratory safety and quality control procedures during sample preparation and analysis.
- Performed laboratory activities systematically to obtain accurate and reliable analytical results

Organizational Experience

BASIC (Base of English Science Club) – Purwokerto, Central Java

March 2024 – Feb 2025

Vice President

- Coordinated internal divisions and maintained effective communication across committees.
- Planned and executed organizational programs, including debate competitions and English language workshops.
- Supported organizational development, budget allocation, member engagement, and external partnerships..
- Monitored program implementation and coordinated with division members to ensure activities were conducted according to plan.
- Coordinated with external parties to support organizational activities and partnerships.

BEM KM MIPA – Purwokerto, Central Java

March 2023 – Feb 2024

Staff, Ministry of Foreign Affairs

- Coordinated comparative studies with two universities to facilitate knowledge sharing and identify organizational best practices.
- Facilitated communication between students and alumni to strengthen networking and mentorship opportunities.
- Organized 4 career webinars in collaboration with industry professionals.
- Coordinated schedules and communication with external stakeholders.
- Assisted in planning and coordinating programs to ensure effective communication between internal and external stakeholders.

Certifications & Skills

- **Analytical & Laboratory Skill** : Laboratory Research, Experimental Work, Sample Preparation, Chemical Extraction, Material Preparation, Chemical analysis, Analytical Data Processing, Data Analysis & Interpretation, Technical Reporting, Research Documentation.
- **Software** : Microsoft Office (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Drive).
- **Soft Skills** : Attention to Detail, Analytical Thinking, Critical Thinking, Problem Solving, Teamwork, Communication, Coordination, Time Management, Adaptability, Responsibility
- **Language** : Indonesia (Fluent), English (Professional Working Proficiency)