



AJENG PINA PURNAMA ASIH

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Jl. Teratai V no 28, Panyileukan, Kota Bandung

Fresh graduate in Chemistry with hands-on laboratory experience and strong analytical skills. Experienced in laboratory testing, instrumental analysis, data processing, and working systematically in accordance with procedures and quality standards. Detail-oriented, adaptable, and ready to contribute in Chemical Analysis, Quality Control (QC), Quality Assurance (QA), or Research & Development (R&D) roles across various industries.

Work Experience

PT. Yorkshire Indonesia - Cicalengka, Jawa Barat, Indonesia

Oct 2021 - Dec 2021

Quality Control Analyst

- Conducted quality control analysis of textile chemicals and raw materials through physicochemical testing, including NVM, viscosity, pH, specific gravity, cloud point, refractive index, acidity, iodine value, and ionic character.
- Performed quantitative chemical analyses using acid-base, iodometric, and argentometric titration, including ammine value, Ca-binding, and water hardness analysis.
- Prepared and standardized analytical solutions, performed sample preparation, analytical calculations, and data interpretation to support quality assessment.
- Ensured the quality of raw materials and samples by conducting laboratory testing to verify their compliance with established standards and quality specifications.

UPTD Laboratorium Kesehatan Jawa Barat - Bandung, Jawa Barat, Indonesia

Jan 2025 - Mar 2025

Laboratory Analyst

- Successfully handled various types of laboratory samples, including clean water, drinking water, wastewater, food and beverage, and toxicology samples.
- Developed proficiency in heavy metal analysis using AAS and UV-Vis spectrophotometry, including sample preparation and analytical result evaluation.
- Conducted food safety testing for borax, formaldehyde (formalin), and heavy metals in food samples.
- Gained practical experience in wastewater quality assessment through BOD, COD, and oil and grease analysis.
- Developed proficiency in proximate analysis, including protein, carbohydrate, fat, moisture, ash, and reducing sugar determination to support food quality evaluation.
- Gained experience in instrument validation and verification to support analytical reliability and compliance with laboratory quality standards.

UPTD Laboratorium Kesehatan Kota Bandung - Bandung, Jawa Barat, Indonesia

Jun 2025 - Jul 2025

Laboratory Analyst

- Conducted clean water and drinking water quality analysis covering physical and chemical parameters according to applicable standards.
- Performed UV-Vis analysis using Spectroquant® Prove 300 and test-kit methods for water quality parameters.
- Conducted BOD and COD analysis for wastewater quality assessment.
- Performed food safety testing for borax and formaldehyde (formalin).
- Conducted microbiological testing of food, water, and rectal samples, including media preparation, inoculation, incubation, and microbial enumeration.
- Processed and interpreted analytical data to support sample quality evaluation and laboratory reporting.

Universitas Islam Negeri Sunan Gunung Djati Bandung - Bandung, Jawa Barat, Indonesia

Jul 2025 - Dec 2025

Analytical Chemistry Laboratory Assistant

- Managed and guided approximately 40 students per class during undergraduate Analytical Chemistry laboratory sessions, ensuring effective instruction and smooth practical activities.
- Prepared chemicals, equipment, and standard solutions and supported students in qualitative and quantitative analysis, titration, and instrumental analysis.
- Ensured compliance with laboratory safety procedures and GLP, while assisting with experimental troubleshooting and practical documentation.
- Developed strong leadership, communication, public speaking, and mentoring skills through direct student supervision and laboratory instruction.

Universitas Islam Negeri Sunan Gunung Djati Bandung - Bandung, Jawa Barat, Indonesia

Feb 2026 - Jul 2026

Organic Chemistry Laboratory Assistant

- Supported the successful implementation of undergraduate Organic Chemistry laboratory sessions by preparing laboratory materials, reagents, and equipment according to experimental requirements.
- Guided students in conducting organic chemistry experiments, strengthening their understanding of laboratory techniques, chemical reactions, and

scientific principles.

- Developed practical knowledge in organic synthesis, compound isolation, purification, and natural product analysis.
- Assisted students in interpreting experimental results and applying scientific problem-solving skills during laboratory activities.
- Ensured laboratory activities were conducted safely and in accordance with Good Laboratory Practice (GLP) and established laboratory procedures.
- Strengthened technical, communication, mentoring, and problem-solving skills through direct supervision of laboratory experiments.

Education

Universitas Islam Negeri Sunan Gunung Djati

Bachelor of Chemistry – GPA: 3.29/4.00

Aug 2022 - Jul 2026

Studied fundamental and applied chemistry with a focus on Analytical Chemistry, Organic Chemistry, Instrumental Analysis, and Laboratory Techniques.

Gained hands-on experience through laboratory courses, research projects, laboratory assistant roles, and internships.

Sekolah Menengah Kejuruan Negeri 7 Bandung

Chemical Industry – GPA: 83.15

Aug 2019 - Jun 2022

Gained hands-on experience in industrial chemistry, chemical analysis, laboratory techniques, chemical processes, and laboratory safety practices

Organizational Experience

Youth Sains Club – Himpunan Mahasiswa Sains Kimia

Jan 2024 - Dec 2024

Secretary

- Managed administration, documentation, correspondence, and organizational records while supporting the planning and execution of Youth Science Club programs
- Participated in science communication and hands-on projects, including science infographics, scientific writing, resin crafts, shampoo, soap, and aromatherapy candle making.

Redaksi Saintek - Lembaga Pers Fakultas Sains dan Teknologi, UIN Sunan Gunung Djati Bandung

Feb 2024 - Feb 2025

Layouter - Treasurer

- Designed Instagram layouts and visual content using for news and event publications.
- Produced live-report and last-minute news content under tight deadlines while maintaining design quality and accuracy.
- Collaborated with the editorial team to deliver clear, engaging, and timely digital content.
- Managed organizational finances and maintained accurate financial records to support transparent and accountable budgeting.

Achievements & Projects

- **Achievements** (2026): Awarded a Gold Medal in the Pure Science Category at the International Invention Competition for Young Muslim Scientists (IICYMS) 2026 for the project “Antioxidant Activity Test of Ethanol Extract from Jasmine Leaves (*Jasminum sambac* (L.) Aiton) and Its Application in Facial Serum.” Also received an IYSA Special Award for the research project.
- **Research Presenter** (2025): Presented a research paper entitled “Analysis of Manganese (Mn), Iron (Fe), Chromium (VI) (Cr(VI)), Nitrate and Nitrite Levels in Clean Water Samples Using UV-Vis Spectrophotometry” at the Seminar Nasional Kimia 2025. The research evaluated clean water quality based on physical and chemical parameters and assessed the results according to Peraturan Menteri Kesehatan Republik Indonesia No. 2 Tahun 2023.
- **Dissemination Presenter** (2026): Presented undergraduate research as part of a research dissemination program, focusing on the isolation and characterization of low-methoxyl pectin from pomelo peel and its application in roselle jelly candy. The research covered pectin extraction, FTIR characterization, physicochemical analysis, and jelly candy quality evaluation.
- **Projects** (2026): Optimasi dan uji aktivitas enzim protease dari *Bacillus* sp. pada variasi suhu
- **Projects** (2025): Verifikasi logam Cu total pada matriks air limbah dengan metode AAS (Atomic Absorption Spectrophotometry) flame

Volunteering

- **Student Orientation Mentor** (2023) : Guided new students, delivered orientation materials, and supported orientation activities.
- **Teaching Elementary Students** - KKN (2025) : Supported learning activities and mentored elementary school students.
- **Secretariat Division** - Minat dan Bakat Festival (2024) : Supported administration, documentation, and event coordination.