

ERVINA NUR AZIZAH

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Denpasar, Bali, Indonesia

Chemistry Graduate | Laboratory Research | Chemical Analysis | Experimental Development

Fresh Chemistry graduate with hands-on research and laboratory experience through internships at BRIN and Puslabfor Bareskrim Polri. Experienced in chemical synthesis, experimental optimization, sample preparation, UV-Vis spectrophotometry, AAS, material characterization, data interpretation, and scientific reporting. Interested in pursuing entry-level opportunities in Research & Development, laboratory research, and chemical analysis.

Professional Experience

BRIN – Research Center for Chemistry - South Tangerang, Indonesia

Feb 2025 - Jul 2025

Research Assistant Intern

A national research institution focused on scientific research and innovation, including advanced chemistry and materials research.

- Conducted research on green synthesis of TiO₂ nanoparticles and biomass-derived nanocomposites for photocatalytic applications.
- Optimized synthesis parameters and experimental conditions to assess material properties and photocatalytic performance.
- Performed sample preparation, material characterization, UV-Vis analysis, and interpretation of experimental results.
- Reviewed scientific literature and documented experimental procedures, findings, and research progress through scientific reports.

Puslabfor Bareskrim Polri - Bogor, Indonesia

Jan 2025 - Feb 2025

Forensic Laboratory Intern

A forensic laboratory specializing in scientific analysis to support criminal investigations and law enforcement.

- Performed sample preparation and analytical testing of environmental water samples according to standardized laboratory procedures.
- Operated Atomic Absorption Spectroscopy (AAS) for heavy metal determination and supported analytical data evaluation.
- Applied laboratory SOPs and safety procedures throughout sample handling and analytical testing to support reliable laboratory results.

Department of Chemistry, Universitas Udayana - Denpasar, Bali, Indonesia

Jul 2024 - Jan 2025

Laboratory Assistant

- Guided students during General Chemistry laboratory experiments, including titration techniques and standard experimental procedures.
- Prepared reagents and demonstrated laboratory equipment operation according to laboratory SOPs.
- Supervised laboratory activities and supported compliance with laboratory safety and chemical handling procedures.

Education

Universitas Udayana  - Bali, Indonesia

Aug 2022 - Aug 2026

Bachelor of Chemistry, 3.89/4.00

- Undergraduate Research: Green synthesis of Cu nanoparticles using Etlingera elatior leaf extract for photocatalytic dye degradation.
- Performed chemical synthesis, sample preparation, and experimental data analysis.
- Applied UV-Vis spectrophotometry and material characterization techniques to evaluate research outcomes.
- Documented experimental procedures, results, and conclusions through scientific reporting.

Organisational Experience

Chemistry Student Association, Universitas Udayana - Jimbaran, Bali, Indonesia

Jan 2024 - Dec 2024

Secretary of the Education and Scientific Development Division

Representing Chemistry students at Universitas Udayana through academic, leadership, and professional activities.

- Managed administrative documentation, meeting agendas, minutes, and accountability reports for divisional activities.
- Coordinated schedules and program activities with the executive board and committee members.
- Maintained organized records and supported effective communication to ensure timely execution of divisional programs.

CYANIDE National Chemistry Competition - Universitas Udayana, Jimbaran, Indonesia

Aug 2024 - Sep 2024

Scientific Competition Coordinator

National academic competition promoting scientific innovation through Olympiad, Poster, Essay, and Scientific Paper competitions.

- Coordinated 7 committee members in organizing two scientific competition categories involving 96 participants.
- Collaborated with 20+ lecturers and judges to develop and validate Chemistry Olympiad questions.
- Coordinated with 50+ committee members to prepare competition materials, schedules, and event activities.

Skills, Achievements, & Other Experience

- **Professional Training – Quality Assurance (QA) & Quality Control (QC)** 📌 (2026): Completed professional training on Quality Assurance and Quality Control, focusing on quality management, inspection, CAPA, and continuous improvement.
- **Professional Training – Good Manufacturing Practices (GMP)** 📌 (2026): Completed professional training on Good Manufacturing Practices (GMP), covering hygiene, sanitation, process control, and food safety compliance.
- **Professional Training – Hazard Analysis and Critical Control Points (HACCP)** 📌 (2026): Completed professional training on HACCP principles, including hazard analysis, risk assessment, and critical control point (CCP) implementation.
- **Professional Training – ISO 22000:2018 Food Safety Management System** 📌 (2026): Completed professional training on ISO 22000:2018, focusing on Food Safety Management System (FSMS) implementation and risk-based food safety management.
- **Professional Training – FSSC 22000 Version 6** (2026): Completed professional training on FSSC 22000 Version 6, covering food safety culture, food defense, food fraud prevention, and certification requirements.
- **Professional Training – Advanced Microsoft Excel** 📌 (2026): Completed intensive training in advanced Microsoft Excel, including data analysis, PivotTables, advanced formulas, dashboards, and data visualization for technical and analytical reporting.
- **Professional Training – Exclusive Short Class Public Speaking** 📌 (2026): Completed professional training in public speaking, enhancing presentation, communication, audience engagement, and interpersonal skills for professional environments.
- **Technical Skills** : Chemical Synthesis, Experimental Design & Optimization, Sample Preparation, Chemical Analysis, Physicochemical Analysis, Material Characterization, UV-Vis Spectrophotometry, Atomic Absorption Spectroscopy (AAS), Data Analysis & Interpretation, Scientific Literature Review, Scientific Reporting
- **Software & Tools**: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Google Workspace, OriginPro
- **Soft Skills**: Analytical Thinking, Attention to Detail, Problem Solving, Team Collaboration, Communication