

MARIZKHA ZUAINI

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Fresh graduate Bachelor of Science in Chemistry Department from Universitas Sebelas Maret, with internship experience as a Laboratory Analyst Intern at the Pusat Survei Geologi Laboratory. Proficient in analytical chemistry and laboratory instrumentation, and trained to work according to occupational health and safety (HSE) SOPs. Experienced in organizational roles as a head and staff member, which strengthened communication, coordination, and project management skills. Ready to contribute to Quality Control (QC), Analyst, Research & Development (R&D) roles.

EDUCATION

Universitas Sebelas Maret - Surakarta, Indonesia

Aug 2022 – May 2026

Bachelor Degree in Chemistry (3.36/4.00)

Thesis Research

"Synthesis, Characterization, and Antibacterial Activity Testing of Ni(II)-*Edaravone* Complex"

- Synthesized coordination compounds by reacting Ni(II) metal ions with the organic ligand *Edaravone*.
- Monitored complex compound formation and reaction progress using UV-vis spectrophotometry.
- Performed 6+ precise sample preparation and metal concentration analysis using Atomic Absorption Spectroscopy (AAS).
- Analyzed molecular formulas and chemical characteristics through multi-instrumental data interpretation (AAS, TGA, conductivity, and FTIR).
- Conducted 10+ targeted sample preparation and experimental execution for microbiological screening of complex compounds.

WORK EXPERIENCE

Pusat Survei Geologi Laboratory - Bandung, Indonesia

Jan 2025

Laboratory Analyst Intern

- Prepared and processed 10+ of sediment rock samples per day for gravimetric analysis using the Loss On Ignition (LOI) method.
- Validated test data result with Certified Reference Material (CRM) and conducted of measurement uncertainty analysis (ISO 17025).
- Enforced laboratory occupational health and safety protocols.

Practical Synthesis of Salts and Non-Polymeric Complex Compounds - Surakarta, Indonesia

Aug – Des 2025

Laboratory Teaching Assistant

- Guided and supervised laboratory experiments and safety compliance for 95 undergraduate chemistry students.
- Coordinated pre-laboratory briefings regarding experimental workflows, reaction mechanism, and analytical methodologies.
- Collaborated with laboratory technicians to manage reagents, glassware, and analytical instruments before, during, and after sessions.
- Served as the lead coordinator for UV-vis spectroscopy instruments utilized as primary instructional material.
- Conducted trial experiments, preparation of reagents, and instruments calibration before practical classes.
- Evaluated and graded student performance based on technical skills, comprehensive laboratory reports, and final examinations.

ORGANIZATIONAL / COMMITTEE EXPERIENCE

Himpunan Mahasiswa Kimia (HIMAMIA) -Surakarta, Indonesia

Jan 2023 – Des 2023

Staff of Scientific Departement

- Designed and executed research-based academic programs, including research seminars, academic writing workshops, and laboratory skill training for chemistry students.
- Curated and archived educational resources, modules, and senior laboratory reports into a structured digital repository for 100+ students.
- Coordinated student study groups to enhance academic performance and practical laboratory competencies.
- Facilitated and mentored student delegation for regional and national scientific paper competition (e.g., Pekan Kreativitas Mahasiswa (PKM), LKTI, and Essay Competition)
- Created and published periodic educational content regarding chemical facts and chemistry insights on Instagram.
- Established professional networks with lecturers, researchers, and external institutions to secure expert speakers for organizational events.

National Scientific Essay Competition (NSEC) - Surakarta, Indonesia

May – Oct 2023

Staff of event division

- Participate every preparation event such as concept, theme, schedule, and etc, also handling the day of the event.
- Coordinated and managed live event operations as the master/stage controller, ensuring all sessions ran strictly on time and met quality standards.
- Served as the primary liaison officer (LO) for keynote speakers, professional judges, and VIP guests to manage their schedules and technical requirements.
- Conducted post-event evaluations to analyze feedback data and draft comprehensive accountability reports for future project improvements.

Instrument Training HIMAMIA X UPT Terpadu UNS - Surakarta, Indonesia

Aug 2023

Head of the Committee

- Led, coordinated, and supervised all committee divisions in planning and executing a high-quality laboratory instrumentation training program.
- Established institutional partnership and bureaucracy with UPT Terpadu UNS to secure event venues, laboratory instruments, and expert instructors.
- Monitored committee performance and took full accountability for compiling the comprehensive post-event evaluation and financial reports.

LICENSES & CERTIFICATIONS

- **Certification:** Occupational Health and Safety (HSE) Competency | Lembaga Sertifikasi Profesi (LSP) UNS | 2026-2029
- **Technical Training:** High-Performance Liquid Chromatography (HPLC) Instrument Training - UPT Integrated Laboratory UNS

ACHIEVEMENT

- Master of ceremony - Kelompok Kajian Ilmiah dan Kepenulisan (K3) Road to NSEC 2023
- 3rd Place - Malang Raya Essay Competition (MREC) 2024
- Silver medal - Lomba Essay Tingkat Nasional 4 (LETIN) 2024
- Silver medal - Nusantara Writing Festival 2 (NWF) 2024

SKILLS

Software Proficiency: Microsoft Office (Word, Excel, PowerPoint), Origin Lab, ChemDraw

Languages Proficiency: Indonesian (Profesional) and English (Intermediate – Profesional Reading and Technical Manual Comprehension)

Soft Skills: Detail-oriented, communicative, diciplined, responsible, adaptive, team work, time management, analytical thinking.