

# Jasmine Nurhaliza Gustaf

Laboratory Analyst | Quality Control | Analytical Chemistry

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## EXECUTIVE SUMMARY

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Bachelor of Science in Chemistry from Universitas Sebelas Maret with hands-on experience in laboratory analysis, research, quality control, and analytical testing through internships and laboratory assistant roles. Experienced in standardized laboratory methods, experimental data processing, chemical analysis, laboratory safety, and SOP compliance. Familiar with water quality testing, UV-Vis Spectrophotometry, and laboratory quality management systems including. Detail-oriented, analytical, and adaptable with strong documentation and teamwork skills.

## EDUCATION

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**Bachelor of Science in Chemistry, Sebelas Maret University**

**Aug 2022 – Jan 2026**

- GPA: 3.57/4.0

## WORKING EXPERIENCES

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**FMIPA Universitas Sebelas Maret – Surakarta, Indonesia**

**Aug 2025 – Jan 2026**

**Chemistry Laboratory Assistant**

**Basic Chemistry & Organic Chemistry Laboratories**

- Guided 90+ chemistry students and 80+ pharmacy students across Basic Chemistry and Organic Chemistry laboratory sessions while ensuring adherence to laboratory SOPs and safety protocols.
- Prepared chemical reagents, laboratory glassware, and experimental setups in accordance with laboratory SOPs and safety standards.
- Evaluated students' pre-tests, flowcharts, experimental data records, and final lab reports for accuracy and consistency.
- Monitored laboratory experiments, assisted students with troubleshooting, and supported interpretation of experimental results.

**Research Center for Chemistry, BRIN RI Serpong –Tangerang, Indonesia**

**Feb 2025 – Jul 2025**

**Research Intern MBKM Program**

- Conducted research on methylene blue removal using coconut shell biomass-based adsorbents through controlled batch adsorption experiments.
- Prepared and characterized biomass-based adsorbents and performed laboratory experiments under controlled conditions.
- Processed and interpreted experimental data and documented research findings according to laboratory and research SOPs.
- Completed laboratory safety induction, prepared Material Safety Data Sheets (MSDS), and handled chemical waste disposal according to laboratory safety procedures.
- Successfully synthesized magnetically modified biochar Achieved a maximum methylene blue removal efficiency of 99,67 %.
- Successfully conducted proximate analysis of moisture and ash content to ensure compliance with SNI 06-3730-1995.

**UPTD Laboratorium Kesehatan Daerah Wonogiri – Wonogiri, Indonesia**

**Jan 2025 – Feb 2025**

**Laboratory Analyst Intern**

- Conducted physical and chemical quality analysis of clean water, PDAM water, and drinking water based on Ministry of Health Regulation No. 2 of 2023.
- Operated UV-Vis Spectrophotometer, Spectroquant Prove 300, Turbidimeter, and multimeter for laboratory testing.
- Performed quantitative chemical analysis, including trace dissolved parameter testing and volumetric titration.

- Completed water quality assessments on three types of samples (clean water, PDAM water, and drinking water), covering physical and chemical parameters to support environmental health quality assurance.

## PROJECT

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### **PKM-RE Research Participant, PIM UNS 2025** **Aug 2025**

- Selected for university-level (PIM UNS) evaluation in PKM-RE 2025 with the title ‘Transforming Styrofoam into Sustainable Energy using The Pyrolysis Method with Natural Zeolite as The Catalyst’.
- Contributed to experimental design and research proposal development focused on improving thermal decomposition efficiency and product yield.

### **PKM-RE Research Participant, PIM UNS 2024** **April 2024**

- Selected for university-level (PIM UNS) evaluation in PKM-RE 2024 with the title ‘Pembuatan, Karakterisasi, dan Optimasi Sediaan Acne Patch dari Kitosan Cangkang Keong Sawah (Pila ampullacea) dan Ekstrak Buah Kigelia Africana’.
- Contributed to experimental design and research proposal focused on development, characterization, and optimization of an acne patch formulation derived from chitosan extracted from Pila ampullacea shells and Kigelia africana fruit extract.

### **Participant, WIBAWA UNS 2025** **Aug 2025 – Dec 2025**

- Conducted basic market analysis, product development, and small-scale production planning for a student entrepreneurship project.
- Developed and commercialized a perfume product while strengthening teamwork, communication, and problem-solving skills.

## ORGANIZATIONAL EXPERIENCES

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### **Head of Secretariat Administration Bureau, HIMAMIA FMIPA UNS** **Mar 2024 – Dec 2024**

- Managed the organization’s administrative system and document archiving to ensure structured and well-documented records.
- Coordinated activity secretaries and ensured the completeness and accuracy of administrative documents for organizational programs.

### **Secretariat Administration Staff, HIMAMIA FMIPA UNS** **Mar 2023 – Dec 2023**

- Supported the management of secretariat documentation and administrative records.
- Assisted in the administrative execution of organizational activities and events.

### **Social Affairs Staff, BEM FMIPA UNS** **Mar 2023 – Dec 2023**

- Supported social/community engagement programs and coordinated with stakeholders.

## CERTIFICATE AND TRAINING

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- **Badan Nasional Sertifikasi Profesi (BNSP) through LSP UNS** **May 2026 – May 2029**  
Occupational Health & Safety (K3) BNSP
- **Makin Ahli** **April 2026**  
Laboratory Management System (ISO 17025:2017) Training
- **Makin Ahli** **April 2026**  
Quality Management System (ISO 9001:2015) Training
- **Makin Ahli** **March 2026**  
Awareness Training Occupational Health & Safety Management System Based on ISO 45001:2018 and SMK3 PP No 50 Tahun 2012
- **Makin Ahli** **March 2026**  
Awareness Training Environmental Management System Based on ISO 14001:2015
- **Makin Ahli** **Aug 2025**  
Good Laboratory Practice (GLP) Training

- **PT Saylendra Kukuh Sejahtera**  
Webinar on Internal Laboratory Quality Control

**July 2026**

## **SKILLS**

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**Technical Skills:** Laboratory & Analytical Testing (Laboratory Testing, Volumetric Titration, Water Quality Analysis, Sample Preparation, Experimental Data Analysis), Instrumentation (UV-Vis Spectrophotometer, Spectroquant Prove 300, Turbidimeter, pH meter, Multimeter), Quality & Safety (K3, GLP, Laboratory SOP), Research (Adsorption Experiment, Proximate Analysis, Experimental Design, Data Interpretation, Research Documentation).

**Soft Skills:** Detail-Oriented, Effective Time and Task Management, Problem Solving, Strong Communication and Interpersonal Skills, Team Collaboration and Independent Work Capability, Adaptability in Dynamic Work Environments.

**Language:** Bahasa Indonesia (Native), English – TOEFL Prediction Test 577.

**Software:** Microsoft Excel for Data Processing, Word, PowerPoint, Google Spreadsheet, Google Docs, Origin for Data Visualization and Statistical Graphing, Design Expert 13 for Designing and analyzing multifactor experiments using the RSM method.