

JAHRA SALSABILA

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Summary

Chemistry graduate from Diponegoro University with academic and industrial experience in laboratory research, environmental chemical analysis, and petrochemical operations. Skilled in sample preparation, reagent preparation, microbiological techniques, UV-Visible spectrophotometric analysis, analytical data interpretation, and laboratory documentation. Experienced in supporting laboratory activities, conducting water quality analysis, applying GLP and laboratory safety principles. Combined with industrial exposure in petrochemical plants, bringing strong attention to detail, chemical handling awareness, and a commitment to quality, safety, and continuous improvement. Seeking to contribute to Quality Control, Quality Assurance, or Research & Development.

Education

Universitas Diponegoro (2020 – 2024)

Bachelor's degree in Chemistry, GPA: 3.41/4.00

- Thesis: Optimization of NaCl Concentration in the Production Medium of Protease Enzyme by Halophilic Bacteria *Bacillus clausii* J1G-0%B.

Work Experiences

PT. Indranata Teknindo Project Based (2 Days Assignment)

Safety Fieldman Shutdown Project at PT. Dover Chemical

- Supported confined space work activities by preparing work permits, conducting Job Safety Analysis (JSA), coordinating gas testing with the HSE team, and verifying worker fitness prior to permit approval.
- Coordinated with operations, HSE personnel, and contractors to ensure work areas met safety requirements before maintenance activities commenced.

PT. Sankyu Indonesia International Project Based (Jan- Feb 2026)

Safety Fieldman PSM Project at PT. Chandra Asri Pacific

- Gained exposure to the petrochemical plant environment, understanding the workflow and critical safety standards required for handling monomer and polymer materials.
- Conducted workplace inspections, verified hazardous chemical handling, and monitored maintenance activities to ensure compliance with HSE regulations, standard operating procedures (SOPs), and Safety Data Sheets (SDS) in a petrochemical plant.
- Prepared inspection reports, documented safety observations, and coordinated with operations and maintenance teams to support regulatory compliance and safe project execution.

PT. Yokogawa Indonesia Project Based (November 2025)

Safety Fieldman Shutdown Project at PT. Tifico Fiber Indonesia

- Monitored field activities to ensure compliance with work permits and operational procedures.
- Conducted routine inspections and identified unsafe conditions requiring corrective actions.
- Verified compliance with chemical handling procedures and PPE requirements.
- Collaborated with multidisciplinary teams to ensure safe project execution.

Research Experience

Diponegoro University (Aug 2023 – Aug 2024)

Student Researcher

- Conducted laboratory research on protease production by halophilic bacteria, including reagent and culture media preparation, microbial cultivation, UV-Visible spectrophotometric analysis, and analytical data interpretation.
- Maintained laboratory documentation, applied Good Laboratory Practice (GLP), and evaluated experimental results to optimize enzyme production conditions.

Laboratory Experience

Biochemistry Laboratory

(Aug – Dec 2023)

Laboratory Assistant

- Assisted undergraduate practical sessions by explaining molecular biology concepts, including ribosomal and their applications in bacterial identification and phylogenetic analysis.
- Guided students in sequence alignment and phylogenetic tree construction using BioEdit and MEGA, while supporting practical assessments and laboratory documentation.

Dinas Lingkungan Hidup Yogyakarta

(Dec 2022 – Feb 2023)

Laboratory Assistant

- Collected groundwater samples and performed total hardness and permanganate value analyses using standardized analytical methods for environmental water quality assessment.
- Prepared reagents, documented analytical results, and maintained laboratory records in accordance with established laboratory procedures.

Professional Training

- **General Occupational Safety and Health Expert (Ministry of Manpower)**, held by PT Garuda Systrain Interindo on June 10th – 23rd, 2025.
- **Basic Training in First Aid**
- **Basic Training in Firefighting**
- **Basic Training in Emergency Response**
- **Explosion Safety and Management of Explosive Materials**
- **ISO 9001:2015 (Quality Management System)**
- **ISO 14001:2015 (Environmental Management System)**
- **ISO 45001:2018 (Occupational Health and Safety System)**
- **Environmental Risk Identification & Assessment**
- **Waste Management**
- **Hazardous Materials Management**
- **Hazardous Gas Detection and Monitoring System**
- **Good Manufacturing Practice (GMP)**
- **Hazard Analysis Critical Control Point (HACCP)**
- **ISO 22000:2018**

Organizational Experiences

Research Incubator Center

(Feb 2024 – Aug 2024)

Litbang Staff

Research Incubator Center

(Feb 2021 – Jan 2023)

Secretary

Himpunan Mahasiswa Kimia

(Apr 2021 – Feb 2023)

Social Department Staff

Skills and Other Experiences

- **Interpersonal Skills:** Dynamic and adaptable, with the ability to work effectively both independently and within a team, demonstrates good attention to detail, and analytical thinking.
- **Technical & Laboratory Skills:**
 - **Laboratory Techniques:** sample preparation, solution & reagent preparation, microbial cultivation, UV-Visible Spectrophotometric analysis, water quality analysis, wet chemistry, analytical data interpretation, laboratory documentation.
 - **Laboratory Equipment:** UV-Visible Spectrophotometer, analytical balance, pH Meter, volumetric glassware, titration.
 - **Software:** Microsoft Office (Excel, Word, PowerPoint), Google Workspace, BioEdit (DNA Sequence Alignment), MEGA (Phylogenetic Tree Analysis).
- **Language:** English (Advanced, TOEFL Score: 590) and Indonesian (Native).
- **Achievement:** Silver Medal – Indonesia Inventors Day (2021) for innovation in scientific research.