

NAYSILIA FAWNIA PUTRI

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SUMMARY

Chemistry graduate from Universitas Islam Indonesia with hands-on laboratory experience at PT Timah Tbk in processing, refinery, exploration, and production planning environments. Experienced in quality control, laboratory analysis, sample preparation, analytical testing, mineral characterization, method validation, data analysis, and technical reporting using XRF, AAS, XRD, SEM-EDX, GCA, and iodometric titration. Completed training in K3, ISO 9001:2015, and environmental management, with knowledge of laboratory safety, chemical handling, B3 waste management, and quality management systems.

EDUCATION

Universitas Islam Indonesia Yogyakarta, Indonesia
Bachelor of Science in Chemistry - GPA: 3.82/4.00 (Cumlaude) 2022 - 2026

- Relevant Courses: Occupational Health & Safety (K3), Mining Chemistry, Water, Soil & Air Analysis, Environmental Chemistry, Hazardous & Toxic Materials (B3), Waste Recycling Technology, Green Chemistry, Geochemistry, Chemical Industry Processes

WORK EXPERIENCE

PT Timah Tbk Bangka Belitung, Indonesia
MBKM Laboratory Intern, Processing & Refinery Division September 2025–December 2025

- Conducted quality control and laboratory analysis of industrial samples using XRF, AAS, XRD, and Grain Counting Analysis (GCA).
- Performed sample preparation and analytical testing for 10+ samples weekly, following laboratory procedures and safety standards.
- Verified and interpreted laboratory test results and analytical data to support accurate quality assessment and process evaluation.
- Maintained sample documentation, test records, and technical reports to support laboratory traceability and reporting.

PT Timah Tbk Bangka Belitung, Indonesia
Laboratory Intern, Exploration & Production Planning Division February 2025

- Performed sample preparation for laboratory analysis according to established procedures and safety standards.
- Operated X-Ray Fluorescence (XRF), Grain Counting Analysis (GCA), and X-Ray Diffraction (XRD) instruments for industrial sample analysis.
- Processed and analyzed laboratory data to obtain accurate analytical results and support sample evaluation.
- Recorded and organized sample information, analytical results, and testing data to support laboratory documentation and traceability.

ORGANIZATIONAL EXPERIENCES

PSM Miracle Voices UII Yogyakarta, Indonesia
Vice General Secretary 2025 - 2026

- Managed 15+ official documents monthly, including correspondence, meeting minutes, proposals, and organizational records.
- Prepared and organized weekly meeting documentation and activity records to support efficient organizational coordination.
- Coordinated with 10 committee members regarding administrative requirements, schedules, and activity documentation.

Chemistry Center of Essential Oil Studies (CEOS) UII Yogyakarta, Indonesia
Staff 2023

- Contributed to developing and promoting hand soap, rose water, and aromatherapy candle products.
- Produced 14 aromatherapy candles for sale by following preparation, formulation, and packaging procedures.
- Supported promotional activities by presenting product features to prospective buyers.
- Coordinated with CEOS UII team members on product development, production scheduling, and sales preparation.

PROJECT EXPERIENCES

Undergraduate Research — Tin Ore Analysis & Method Validation

Yogyakarta, Indonesia

Researcher

2025–2026

- Conducted tin ore analysis, mineral characterization, and analytical method validation using XRF, AAS, XRD, SEM-EDX, and iodometric titration.
- Performed sample preparation and laboratory testing to evaluate the chemical and mineralogical characteristics of tin ore.
- Analyzed and validated experimental data using One-Way ANOVA to assess analytical results and method performance.
- Prepared technical documentation, laboratory records, and scientific reports based on analytical findings and research results.

TRAINING

ISO 9001:2015 Quality Management System Bootcamp

December 2024

- ISO 9001:2015 Quality Management Principles
- ISO 9001:2015 Awareness
- ISO 9001:2015 Requirements
- Risk-Based Thinking and Risk Management
- Quality Management System Implementation

UKL-UPL & AMDAL Bootcamp

December 2024

- Environmental Regulations and Compliance
- Environmental Document Preparation
- Environmental Impact Assessment
- Environmental Management Techniques
- Sustainable and Environmentally Friendly Development
- Environmental Document Screening

Laboratory Occupational Health & Safety (K3) Bootcamp

September 2024

- Occupational Health, Safety, and Environment (K3L)
- Chemical Classification, Storage, and Handling
- Safety Data Sheet (SDS/MSDS) and Personal Protective Equipment (PPE)
- Hazardous and Toxic Waste (B3) Management
- ISO 45001:2018 Occupational Health and Safety Management System

ACHIEVEMENTS

Gold Medal Yogyakarta International Choral Festival (YICF), Equal Voice Category, 2026

CERTIFICATIONS

CEPT (English Proficiency Test) – Total Score: 572, CILACS UII, 2026.

SKILLS

- Technical Skills: Quality Control, Laboratory Analysis, Analytical Testing, Sample Preparation, Sample Characterization, Method Validation, Data Verification, Data Analysis, Mineral Characterization, One-Way ANOVA, XRF, AAS, XRD, SEM-EDX, GCA, Iodometric Titration, Technical Reporting.
- Soft Skills: Detail-oriented, Disciplined, Systematic, Adaptable, Safety-conscious, Collaborative.
- Software: Microsoft Excel, Microsoft Word, Microsoft PowerPoint.
- Languages: Indonesian (Native), English (Intermediate).