

ANNISA WIDA NINGRUM

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Fresh graduate in Chemical Analysis with a strong foundation in analytical chemistry, laboratory testing, and chemical analysis. Experienced in performing physical and chemical testing during a Quality Control laboratory internship, including pH, acidity, viscosity, specific gravity, protein, fat, and total solids analysis. Familiar with laboratory techniques such as titration, sample preparation, and UV-Vis spectrophotometry, with basic exposure to HPLC sample injection. Detail-oriented and eager to further develop technical skills in analytical testing and pharmaceutical laboratory environments.

EDUCATION

Bandung State Polytechnic

D3 - Chemical Analysis | GPA 3.19/4.00

2023 - 2026

Vocational High School 2 Cilegon

Chemical Analysis

2018 - 2022

CERTIFICATION

- ISO/IEC 17025:2017 Awareness – General Requirements for Testing and Calibration Laboratory Competence
- Occupational Health and Safety (K3)

PROFESSIONAL EXPERIENCE

Quality Control Laboratory Intern | PT ABC Kogen Dairy

Jan 2026 - Mar 2026

- Performed physicochemical and proximate testing on dairy product samples, including protein, fat, total solids, pH, and acidity analysis, in accordance with laboratory SOPs and quality control procedures.
- Measured product viscosity and specific gravity to evaluate the consistency of physical characteristics.
- Monitored 9 water and wastewater quality parameters, including BOD, COD, TSS, pH, turbidity, chlorine, hardness, TDS, and conductivity.
- Recorded, verified, and documented test results systematically to support data traceability and quality control activities.
- Operated and verified laboratory instruments prior to testing to ensure equipment readiness.

Battery Material R&D Intern | PT. Advanced Material Indonesia

Jun 2025 - Jul 2025

- Prepared laboratory materials and equipment for the fabrication of CuS electrodes in accordance with testing stages, supporting the characterization process of new materials.
- Operated a potentiostat to characterize materials using Galvanostatic Charge-Discharge and Cyclic Voltammetry methods.
- Processed and visualized laboratory data in Microsoft Excel to support analysis of electrochemical performance.

Quality Control Intern | UPTD P3T Dinas Pertanian Provinsi Banten - Serang

Jan 2022 - Feb 2022

- Coordinated 5 members laboratory team conducting animal feed quality analysis, ensuring all samples were tested on schedule.
- Conducted proximate analysis across 4 parameters (moisture, ash, crude protein, phosphorus) per laboratory testing procedures.
- Calibrated laboratory instruments on a regular basis to support equipment readiness and testing accuracy.
- Documented test results as part of the laboratory's quality control process.

LABORATORY PROJECTS

Final Project | Synthesis and Characterization of Iron Phosphate (FePO_4) from Iron Oxide (Fe_2O_3)

Dec 2025 – May 2026

- Synthesized $\text{FePO}_4 \cdot \text{H}_2\text{O}$ from Fe_2O_3 through an acid leaching process using H_2SO_4 with variations in concentration and reaction time.
- Conducted chemical precipitation using H_3PO_4 , H_2O_2 , and NH_4OH at different pH conditions.
- Evaluated the effect of acid concentration, leaching time, and precipitation pH on product characteristics.
- Prepared samples through drying and calcination processes.
- Analyzed and interpreted product crystallinity and morphology using XRD and SEM-EDS.

Project-Based Learning | Method Verification and Validation for Calcium Determination in Packaged Liquid Milk

Oct 2025 – Nov 2025

- Performed method verification and validation for calcium determination using permanganometric titration based on ISO 12081:2010.
- Prepared samples through protein precipitation, centrifugation, and precipitate washing.
- Conducted titration using standardized potassium permanganate solution under controlled temperature conditions.
- Performed blank testing and applied fat correction factors in calcium mass fraction calculations.
- Evaluated method repeatability based on the precision criteria of ISO 12081:2010.

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Head of the Development Division - Student Resource Development Department | Chemical Engineering Student Association

Mar 2025 - Dec 2025

- Set the divisional strategy and work programs based on the organization's vision and objectives.
- Coordinated program execution from planning through monitoring and evaluation.
- Oversaw task distribution and progress with staff members to keep activities on track.

SKILLS

- **Quality & Laboratory:** Physicochemical & Proximate Analysis, Quality Control Testing, Sample Preparation, Instrument Calibration & Verification, Laboratory Documentation, Test Result Recording & Verification, SOP Compliance.
- **Laboratory Instruments:** Automatic Titrator, Brookfield Viscometer, Potentiostat, FOSS Kjeltec 8200, UV-Vis Spectrophotometer
- **Software:** Microsoft Excel (Data Analysis), Microsoft Word, Microsoft PowerPoint
- **Languages:** Indonesian (Native), English (TOEIC 510 – Limited Working Proficiency)
- **Soft Skills:** Attention to Detail, Analytical Thinking, Problem Solving, Teamwork, Communication, Time Management, Adaptability, Leadership