

# FATMA SEKAR PUTRI DEWANTY

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## PROFILE

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A professional in Utility and WTP & WWTP Laboratory with experience at PT Cargill Indonesia and internship as a Process Engineer intern at PT Petrokimia Gresik. Worked as a Laboratory Assistant with practical experience in performing laboratory testing and quality analysis, including Salt Analysis, Free Fatty Acid (FFA) and PV analysis, water quality testing, Moisture Content (MC) determination, and other standard laboratory procedures. Skilled in process monitoring using HMI systems, water and wastewater treatment, production process planning and control, industrial equipment operation, basic data analysis as well as economic analysis. Proficient in various software including Microsoft Office, HMI, MATLAB, Microsoft Visio, SPSS, Google Sheets, and Wondershare Filmora. Actively engaged in management training and holding professional certifications, ready to contribute effectively through strong technical expertise and solid teamwork.

## EDUCATION

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**Diponegoro University | Bachelor Applied of Industrial Chemical Engineering** **2018 – 2022**

- GPA 3.66 of 4.00
- Research Project: Extraction Of Hesperidine Compounds From Citrus Reticulata Peel As Nephrotoxicity Using Subcritical Water Extraction Method
- Project task internship: Thermal Efficiency Analysis on Rotary Dryer (22-M-362) Production Phonska IV Unit IIB PT Petrokimia Gresik
- Final Project: Pre-Design of Sorbitol Plant from Corn Starch Using Raney Nickel Catalyst in Catalytic Hydrogenation Process Capacity of 25,000 Tons/Year

## EXPERIENCE

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**PT Sorini Agro Asia Corporindo – Cargill Indonesia (Serang, Banten)** **Aug 2023 – Oct 2025**  
**Production Division (Utility Process)**

- Operating the Human-Machine Interface (HMI) through a computer system
- Operate water treatment and water regeneration for production process according to Cargill's operational procedures, food safety standards, and quality standards
- Conduct analysis to check water hardness, electrical conductivity, turbidity, pH, chlorine levels, and baume of brine
- Operating waste processing, cultivating bacteria for waste treatment, monitoring biogas flares, and inspecting sump pond in compliance with wastewater quality standards as stipulated in Minister of Environment Regulation No. 5
- Conduct analysis of Chemical Oxygen Demand (COD), Mixed Liquor Suspended Solids (MLSS), Total Suspended Solids (TSS), SV30, Total Dissolved Solids (TDS), Brix, pH, and Level Calamity
- Conduct analysis of Brix in HCL and NaOH samples
- Operation of hydrants and control of diesel hydrant tanks
- Operating air compressors, monitoring pressure in the buffer tank, and checking the dew point of the air dryer outlet
- Monitor basin water level, cooling tower temperatures, vibrations, and Nalco chemical treatment
- Inspecting instrumentation equipment in all utility areas, leading repair and maintenance activities conducted by vendors or the maintenance team in the Utility area, ensuring all safety procedures and compliance are thoroughly applied.
- Responsibilities include implementing PTW (Permit to Work), LOTO (Lock Out Tag Out), using and interpreting P&IDs (Piping and Instrumentation Diagrams), and actively coordinating with HSE and engineering teams to ensure safe, efficient, and well documented operations.
- Create and update Work Instructions (WI) document for the Utility process to ensure consistency and improve operational efficiency.
- Inspecting counters and updating utility process logsheets to support data traceability and continuous improvement initiatives
- Apply knowledge and experience to resolve issues in the Utility process with supervision.

**PT Petrokimia Gresik – Internship (Gresik, East Java)****Aug 2021 – Sept 2021****Process Engineering Production Department – Unit IIB, Phonska IV Plant**

- Responsible for helping evaluate the performance of the Rotary Dryer
- Responsible for assisting with calculations, analysis, and evaluation of the Rotary Dryer's performance
- Understand the product manufacturing process from raw materials to finished products
- Familiar with PFD and P&ID related to the production process and instrumentation maintenance at Unit IIB, Phonska IV
- Calculated and analyzed mass and energy balance
- Analyzed product specifications, including raw materials and finished products
- Assessed supporting aspects of the production process, such as utilities, waste treatment units, and laboratory analysis.

**Diponegoro University – Internship (Semarang, Central Java)****Sept 2021 – Dec 2021****Laboratory Assistant**

- Assisting lecturers in teaching students about wastewater treatment using coagulation and flocculation method, including conducting case-based analyses in the laboratory
- Assisting lecturers in teaching students about conducted quality analysis of snack food products, performed laboratory testing, including Salt Analysis, Free Fatty Acid (FFA) Analysis, Peroxide Value (PV) Analysis, Moisture Content and Water Analysis. Carried out sensory evaluation (taste, aroma, texture, and appearance).
- Ensuring that all students carry out practical work in accordance with established SOP
- Ensuring that students perform their tasks and understand the procedures properly
- Assessed and provided feedback on students laboratory practicum reports

**ORGANIZATIONAL EXPERIENCE**

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**LKS Bipartit Cargill****2024 – 2025**

- Accommodated employee aspirations related to management, welfare, and job scope, and actively participated in committees for Cargillian events.

**Head of Student Association Student Welfare Advocacy Division****2019 – 2020**

- Supervising all Student Welfare work programs.
- Analyzing and resolving issues arising during program implementation.
- Evaluating staff performance throughout the execution of the work programs.

**Student Welfare Staff of the BEM****2018 – 2019**

- Organizing all student associations related to Student Welfare
- Managing and taking full responsibility for the performance of the Student Association
- Overseeing the UKT (tuition fee) appeal process and all matters related to student affairs
- Conducting Student Welfare Circles to assess the extent of Student Welfare development from various aspects.

**Student Association Social and Student Welfare Staff****2018 – 2019**

- Head of Social Service volunteer activities
- Organizing environmental campaigns to reduce plastic waste among students
- Assisting Chemical Engineering students with internal issues related to UKT payments, new student data collection, administration, graduation, and other student affairs

**SKILL**

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**Hard Skill**

- Human Machine Interface (HMI)
- Microsoft Visio and Microsoft Office (Word, Excel, Power Point)
- SPSS and Matlab
- Google Sheets
- Laboratory instruments and tools

**Soft Skill**

- Excellent interpersonal and communication skills
- Product Development, basic data analysis and Economic Analysis

- Managing data meticulously and accurately
- Accustomed to working with targets and meeting deadlines
- Adaptable in fast paced, strong leadership and team collaboration abilities
- Analytical mindset with creative problem solving skills
- Excellent time management and attention to detail
- Have integrity by prioritizing strong analytical skills, attention to detail, perseverance, honesty, discipline, responsibility, the ability to work accurately, efficiently, and meticulously

## **CERTIFICATION TRAINING**

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- Certificate Training Water Pollution Control and is Qualified as Operations Responsible Person On Behalf of Indonesian Profesional Certification Authority | 2025
- Certificate Training HACCP, GMP, ISO 22000:2018, FSSC 22000, QA and QC, as well as the preparation of the document HACCP by the Makin Ahli for Food Safety in Food Industry Training | 2023
- Certificate Training K3 “Basics K3 in Oil & Gas Safety First” by the Dentech Corp | 2023
- Certificate Training ISO 17025:2017 Accreditation Requirements and Process for Testing and Calibration Laboratories | 2023
- Training Lock Out Tag Out, working at height, confined space, lifting, hazardous material (2023)
- Competency Training and Workshop on "Liquid Chemical Production Process Supervisor" by the National Professional Certification Agency | 2022
- Certified Training Competence and Workshop Awareness Integrated Management System (ISO 9001:2015 ; ISO 14001:2015) | 2022
- Certified Training Competence and Workshop ISO 22000:2018 PT. Wealthindo Putraprarnesti Perkasa as PJK3 KEMNAKER-RI | 2021
- Certified Training Competence and Workshop ISO 45001:2018 PT. Wealthindo Putraprarnesti Perkasa as PJK3 KEMNAKER-RI | 2021
- Certified Training Competence and JSA (Job Safety Analysis) Workshop PT. Wealthindo Putraprarnesti Perkasa as PJK3 KEMNAKER-RI | 2021
- Certified Training Competence and Workshop on HAZOP (Hazard Operability Study) PT. Wealthindo Putraprarnesti Perkasa as PJK3 KEMNAKER-RI | 2021
- Certified Training Competence and Workshop HIRAC/HIRADC (Hazard Identification Risk Assessment and Determining Control) PT. Wealthindo Putraprarnesti Perkasa as PJK3 KEMNAKER-RI | 2021
- Training "K3 Management System for Oil and Gas, Geothermal, Mining and Construction Sector" Occupational Safety and Health Forum | 2019
- Hydrocarbon Refrigerant for Green Cooling Application System | 2019

## **ACHIEVMENT**

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- Granted Patent Certificate (No. IDS000006334, 2023) for the invention titled “Extraction Process of Piperine from Javanese Chili (Piper retrofractum) Using Subcritical Water” | 2023
- Contributions in the 3<sup>rd</sup> International Convergence on Chemical Engineering and Applied Sciences | 2022
- Achieved 5th place in the Faculty-level Student Creativity Program (PKM) | 2021
- Recipient of the Academic Achievement Scholarship (PPA) | 2019

## **VOLUNTEER EXPERIENCE**

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- Community Service Volunteer – Lerep Village, Ungaran | 2021
- Community Service Volunteer – Ngaduman Village, Salatiga (on the slopes of Mount Merbabu) | 2020