

M. Ramdan Abdul Mannan

QC & R&D/ Laboratory Enthusiast / Chemistry Graduate Student

+62 85722261113 | Muhammad.ramdan1811@gmail.com | Bogor, West Java 16110 | [linkedin.com/in/ramdan-abdul-mannan-80713b120](https://www.linkedin.com/in/ramdan-abdul-mannan-80713b120)



Profile Summary

Chemistry graduate with hands-on experiences in petrochemical, pharmaceutical, and mining industries, specializing in laboratory operations, Research & Development, Quality Control, and manufacturing processes. Demonstrates strong leadership and problem-solving capabilities, with a proven ability to lead teams, make data-driven decisions, and implement strategic improvements. Highly adaptable in fast-paced environments, with excellent communication skills, analytical thinking, and a passion for continuous learning and innovation. A dependable team player who thrives in collaborative settings and is committed to delivering high-quality results. Certified in ISO Management Systems with practical understanding of quality and laboratory accreditation standards (e.g., ISO 9001, ISO/IEC 17025), strong knowledge of Occupational Health & Safety (K3), and licensed as Radiation Protection Officer (PPR) Level 3 – Industrial Sector, authorized by BAPETEN to supervise and ensure safe handling of radiation sources in compliance with national regulations.

Educations

Sriwijaya University, South Sumatera - ID

Aug 2017 – 2021

Chemistry Student, IPK 3,35

- Competencies: Riset & Laboratory Skills, ISO & SNI Knowledges, Good Laboratory Practices, Industry Process, Statistics and Data Analysis.
- Thesis Title: Synthesis and Characterization of Hydroxyapatite from Chicken Egg Shell (*Gallus Gallus Domesticus*) and the Effect of Addition SiO₂ on Mechanical Properties.
- Organic Chemistry Laboratory Assistant (2018-2019), Basic Analytical Chemistry Laboratory Assistant (2019) and Inorganic Chemistry Laboratory Assistant (2019-2020).

SMK – SMAK Bogor, Bogor - ID

Aug 2013 – 2017

Analytical Chemistry, Vocational High School

- Conducting chemical analysis qualitatively and quantitatively both conventionally and with instruments such as gravimetric, volumetric, proximate, microbiology, spectrophotometry, AAS, GC, GC-MS and HPLC, etc.

Professional Experiences

Harita Nickel Group – Maluku Utara, ID

PT. Gane Tambang Sentosa (Intercompany transfer)

May 2025 – Now 2025

PT. Trimegah Bangun Persada

Februari 2023 – April 2025

Foreman Laboratorium & Quality Assurance Officer, Department of Preparation & Laboratory

- Performed analysis of Nickel ore using Fuse Bead and Press Powder methods with ED-XRF (Epsilon 4) and WD-XRF (Zetium & Rigaku Supermini200) instruments.
- Prepared and submitted daily, weekly, and monthly laboratory reports for internal monitoring and decision-making.
- Supervised, monitored, and coordinated lab analysts and crew in sample preparation to ensure accuracy and efficiency.
- Conducted screening, validation, and monitoring of sample data to maintain data integrity and traceability.
- Reported daily activities and work progress directly to Supervisor and Superintendent.
- Executed calibration, validation, and verification of XRF instruments and analytical methods according to standard procedures.

PT. Mersifarma Tirmaku Mercusana – Sukabumi, ID

Mei 2022 – Februari 2023

Staff Research and Development, Analytical Development Section

- Conducted trial and validation of analytical methods for cleaning markers, existing drugs, and new product formulations.
- Prepared validation protocols and detailed reports based on trial and method validation results.
- Performed routine maintenance and troubleshooting of laboratory instruments, including UV-Vis Spectrophotometer, HPLC, UPLC, GC, and ICP-OES.
- Reported daily activities and progress directly to the R&D Supervisor and Head of Department.
- Actively contributed to method development related to ethylene glycol (EG) and diethylene glycol (DEG) detection in syrup and suspension dosage forms.

PT. Sri Aneka Karyatama – South Sumatera, ID

Jan 2021 – April 2022

Subsidiary and Holding Company of PT. Pupuk Sriwijaya (PUSRI)

Analyst Control Production Laboratory Department

- Performing variety of analysis and tests in accordance with established testing methods and instructions in Utility, Urea and ammonia Plant.
- Carrying out complex test analysis and involve in studies to support production performance, product quality optimization and customer needs.
- Carrying out maintenance and troubleshooting of lab equipment in his area of responsibility.
- Make a Report to Foreman and Supervisor Lab also Supervisor shift on daily activities and work progress.
- Take effective action in accordance with established Health, Safety and Environment Regulations to control emergencies and contain hazards with in area of responsibility in close cooperation with the Shift Supervisor.

Analyze samples from the plant, consist of :

1. Utility Plant (Demineralizing unit, Water Treatment Plant, Steam System, Boiler Feed Water System, Cooling Water System, Demin Water Plant and Waste Water Treatment Plant)
2. Ammonia Plant (Feed Treating Section, Reformer Section, Synthesis Gas Section, Purification Section and PGRU Section)
3. Urea Plant (Syntesis Section, Purification/Decomposition Section, Prilling Section & Recovery Section)

PT Pupuk Sriwijaya (PUSRI) – South Sumatera, ID

Des 2019 – Jan 2020

Laboratory Internship

- Conducting analysis of natural gas and the content of ammonia and sulfide acid, also analyzing the total oil content in the tool in the process of making fertilizer
- Report title: Analysis of Natural Gas Content In Gas Meter Station and Its Effect on The Quality of Ammonia Manufacturing Production at Pt Pupuk Sriwidjaja Palembang

PT Industri Susu Alam Murni - Bandung, ID

Nov 2016 – Feb 2017

Chemical Analyst (Quality Control) Intern

- Analyzed problems to improve product quality through appropriate analytical methods and instruments.

Organizational Experience

BEM KM FMIPA UNSRI

Special staff of the Governor and Vice Governor of students

Nov 2019 – Feb 2021

- Worked as an assistant of the governor and vice governor of students in the fields of advocacy, student movement, community service and even organizer
- Worked to host the national deliberation activities of the Indonesian student institution association (ILMMIPA INDONESIA) 2020, handling about 50 universities and 100 participants in the activity for 5 days

Head of Advocacy and Student Welfare

Nov 2018 – Okt 2019

- Helped students in “UKT” issues such as payments, delays and filing for reduced ukt fees submissions
- Holding scholarship seminars from various scholarship distribution communities for students

Chemistry Student Society - Sriwijaya University

Feb 2018 – Okt 2020

Staff of Scientific studies, Advocacy and Multimedia

- Helped to increase the interest and talent of chemistry students in the fields of scientific studies, authorship, advocacy and multimedia

OSIS Junior High School of Ar-Rahman

Sep 2011 – Ags 2012

President

- Led a team of 30 students to conduct the first student council in school in carrying out all supporting activities of students in school both in the academic and non-academic fields
- Criginator and first organizer in art performance activities and olympic students in sukabumi

Skillset

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- Strong problem-solving skills, troubleshooting skills and knowledge using frameworks (like Fishbone & SWOT)
 - Skilled in operating assigned analysis equipment of plant utility, Urea and Ammonia, and have a full understanding of the complete life cycle of a system process in fertilizer industry.
 - Skilled in operating assigned analysis equipment such as UV-Vis Spectrofotometer, Atomic Absorption Spectrometry, Gas Chromatography and High Performance Liquid Chromatography.
 - Have full knowledge about the analysis of water, gas and solids in the plant utilities, urea and ammonia.
 - Having good analytical skill, strong motivation and Eager to learn and ability to work on own initiative and within a team.

- Having strong leadership, able to work under pressure good communication, public speaking and advocacy
- Internet and Computer Literate (MS Word, Excel, Power Point & MS Out Look).
- Certified in **ISO Management Systems**, with practical understanding of quality and laboratory accreditation standards (e.g., ISO 9001, ISO/IEC 17025).
- Strong knowledge of **Occupational Health & Safety (K3)** principles, including hazard identification, risk assessment, and safety compliance in laboratory and industrial settings.
- Licensed as **Petugas Proteksi Radiasi (PPR) Bidang Industri Tingkat 3**, with the ability to supervise and ensure safe handling of radiation sources in accordance with regulatory standards (BAPETEN).

Additional Information

Achievement

- Awardee of Academic Performance Improvement Scholarships (PPA) – Kemenristekdikti (2018-2020)
- Finalyst of LKTIN and Latihan Kepemimpinan Manajemen Mahasiswa Nasional (LKMMN) X by POLSRI (2019)
- 3 rd Logo Desain in University event held by HKMF UNSRI (2019)
- CO-Founder of Akselerasi Laboratorium and RAM Production (2019 – Now)
- Semifinalyst National Smart Innovation Writing Competition – Engineering Physics Week FTI ITS (2017)
- Participants of National Olympiad of Chemical Engineering – Chemistry Engineering FTI ITS (2017)
- 2 nd winner “Olimpiade Sistem Manajemen Mutu Laboratorium (OSML)” held by Lab Mania in National (2016)
- 2 nd Islamic intelligent race (LCC ISLAM) in region area held by Ministry of Religious Affairs (2011)
- Awardee of Achievment Scholarship by LP3 Ar-Rahman (2011-2013)

Language

- Indonesia (Fluent)
- English (Professional – Working Proficiency)
 - TOEIC PBT – ETS (Educational Training Services) : **Score: 565/990** – ETS (Apr 2017)
 - University of Sriwijaya English Proficiency Test : **Score: 420/600** (September 2017)
- Arabic (Professional – Working Proficiency in Boarding School)

Training & Certification

- Sharing Knowledge K3 UMUM & K3 Laboratorium Division of Laboratory PT. Pupuk Sriwidjaja (2021)
- Speaker of “Temu Tokoh” BEM KM FMIPA UNSRI (2021)
- Speaker of Adcovacy Training held by HIMAKI UNSRI (2020)
- Webinar Methods of RT-PCR and Detection of Virus SARS-COV2 by Department of Chemistry (2020)
- Training of Implementation SNI ISO/IEC 17025:2017 – BSN (2019)
- Training of Implementation SNI ISO/IEC 9001:2015 – BSN (2019)
- Roadshow National Motivation Seminar by KAMI INDONESIA ft MPR RI (2018)
- Introduction to HACCP and ISO 22000 – SMK SMAK Bogor (2017)
- **VAPRO Training Indonesia**
All-around Lab Technician International Certificate (2017)
- **BNSP RI (National Agency for Professional Certification)**
Level of Chemical Testing & Laboratory Technician such as gravimetry, volumetry, microbiology and spectroscopy (2017)
- Achievement Motivation Training run by Chemical Analyst High School of Bogor (2016)
- Training of CPOB by PT. Mersifarma Tirmaku Mercusana (2022)
- Training of Basic Liquid Chromatography and Troubleshooting of HPLC & UPLC by PT. Kromtekindo (2022)
- Training of Basic First Aid By PT. Trimegah Bangun Persada (2023)
- Training of Hazard Identification & Job Safety Analysis By PT. Trimegah Bangun Persada (2023)
- Training of Inspection, Investigation & Observation By PT. Trimegah Bangun Persada (2023)
- **Certified Radiation Protection Officer (RPO), Industrial Sector Level 3 – Licensed by BAPETEN (Indonesia Nuclear Regulatory Agency) (2024 – 2029)**