

RAHEL MASDINA SIMANJUNTAK

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PROFESSIONAL SUMMARY

Materials Engineering graduate with hands-on laboratory research experience in materials processing, characterization, and green synthesis. Skilled in data analysis, technical documentation, and laboratory coordination. Seeking opportunities in R&D, quality control, or materials engineering within the manufacturing or mining industry.

WORK EXPERIENCE

Research & Laboratory Intern

PT ANTAM Tbk | Jun 2024 – Aug 2024

- Conducted laboratory research on the utilization of tailings as raw materials for ceramic production
- Performed material preparation and chemical mixing processes to support experimental trials
- Prepared structured technical documentation and research reports for internal evaluation

Basic Physics Laboratory Coordinator

Institut Teknologi Sumatera (ITERA) | Nov 2023 – May 2025

- Coordinated laboratory operations and supervised practical sessions for 1,000+ First-year TPB students
- Ensured strict implementation of SOPs, laboratory safety, and equipment readiness
- Managed laboratory administration, inventory control, and operational documentation

Basic Physics Laboratory Assistant

Institut Teknologi Sumatera (ITERA) | Aug 2022 – Oct 2023

- Assisted 250+ students in conducting physics experiments and operating laboratory equipment according to SOPs
- Evaluated and graded student practicum reports

EDUCATION

Bachelor of Engineering in Materials Engineering

Institut Teknologi Sumatera (ITERA) | Aug 2021 – Aug 2025 GPA: 3.28 / 4.00

Final Project: *Utilization of Rose Flower Extract (Rosa spp.) as a Natural Reducing Agent and Silver Colloid Stabilizer*

ORGANIZATIONAL EXPERIENCE

Secretary – Community Service Division (PENGMASS)

HMMT Materials Engineering | Aug 2023 – Sept 2024

- Managed organizational documentation, correspondence, and administrative records
- Coordinated internal communication and scheduling of division activities
- Supported planning and execution of community service programs

SKILLS

Technical Skills:

- Nanomaterial & Green Synthesis Techniques
- Sample Preparation & Laboratory Testing
- Material Testing & Characterization
- Scientific Documentation, GLP & Laboratory Safety
- Microsoft Office (Excel, Word, PowerPoint)

Soft Skills

- Analytical Thinking & Problem Solving
- Teamwork & Professional Communication
- Time Management
- Attention to Detail & Accuracy
- Adaptability & Fast Learning