



Khairi Dhea Kamal

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Environmental technology graduate from Universiti Sains Malaysia (QS World Rank: 146, SE Asia: 8th). Hands-on experience in wastewater treatment, Jar Test analysis, environmental testing, and technical solution development. Familiar with water treatment processes, costing analysis, and client support, with a strong interest in Environmental Engineering, Water Treatment, and Sustainability.

Education

Bachelor of Environmental Technology (Honours), GPA: 3.12
Universiti Sains Malaysia (USM), Main Campus, Penang, Malaysia

Oct 2021 – Mar 2025

Work Experiences

Internship (Service dept)/KenEp Resources (Asia) Sdn. Bhd, Selangor, Malaysia Oct 2023 – Jan 2024

- Prepared detailed costing sheets and quotations tailored to customer specifications, ensuring competitive pricing and alignment with project requirements.
- Performed Jar Tests to assess wastewater treatment effectiveness and optimize chemical dosing strategies, ensuring efficient treatment performance and compliance with environmental standards.
- Conducted on-site technical assessments to identify operational issues and recommend customized wastewater treatment solutions that improved process efficiency.

Achievement: Redesigned costing sheets to improve manageability and increase productivity by 20%.

Projects

Wastewater treatment (Photocatalytic degradation)/USM, Penang, Malaysia March 2024 – Jan 2025

- Prepared Nitrogen-Doped Titanium dioxide photocatalyst using wet impregnation method for degradation experiments.
- Evaluated photocatalytic degradation performance under UV-Visible light irradiation as part of final project.
- Characterized photocatalytic properties using X-ray Diffraction (XRD), Photoluminescence Spectroscopy (PL), and UV-Vis Diffuse Reflectance Spectroscopy (DRS).

Wastewater Treatment (Jar Test Method)/KenEp Resources (Asia) Sdn. Bhd, Selangor, Malaysia Oct 2023 - Jan 2024

- Conducted Jar test method to analyze wastewater contamination levels and treatment efficiency.
- Calculated optimal chemical dosage required to achieved clean water standard based on experimental result.

Organization

Leadership Camp (PPSL USM)/USM, Penang, Malaysia

- Participated in an intensive leadership camp focused on developing key skills in teamwork, communication, and strategic problem solving.
- Mentored and guided a group of new students to actively engage in activities, and preparedness for competitions.

Teaching volunteer, Bimbingan Sanggar permai/Penang, Malaysia

- Provided educational support to children from underprivileged backgrounds, helping them build basic literacy, numeracy, and confidence.
- Contributed to a community-focused initiative aimed at improving educational access and social development for children from disadvantaged families.

Indonesian Student Organization (PPI USM)/USM, Penang, Malaysia

- Participated actively in cultural and community activities, promoting Indonesian student engagement on campus.
- Supported events, workshop, and student programs to strengthen community bonds among Indonesian students.

Skills

Software	: Microsoft Office, SPSS, MATLAB, AutoCAD.
Hard Skill	: Wastewater Treatment, Jar Test Analysis, Water Quality Analysis, Environmental Monitoring,
Languages	: English (Intermediate), Bahasa Indonesia (Native), Malay (Intermediate)