

NAILA GUL

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📍 Shaikh Muhalla Bhit
Shah, Taluka Hala,
District
Matiari, Sindh, Pakistan

Profile

More than Eight years of experience at prestigious academic institutions. Adept at fostering student growth and expertise in Environmental Engineering with an emphasis on sustainability and experiential learning.

Education

Master of Engineering (Environmental Engineering and Management)

Mehran University of Engineering and Technology

Jan 2013 – Mar 2016 |
Jamshoro,
Sindh, Pakistan

Bachelor of Engineering (Environmental Engineering)

Mehran University of Engineering and Technology

Jan 2009 – Dec 2012 |
Jamshoro,
Sindh, Pakistan

Teaching Experience

Undergraduate Level

(ENS211) Fundamental & Applied Ecology (UG-Level, BS-Environmental Science)- 2022-Present

Class Practical Conducted

Physical, chemical, and biological parameters for water and wastewater quality

Assistance in Research Ph.D./MS

Assist Ph.D. and MS students in their research (2017-present)

Student Co-Supervision

MS Student (Hydraulic, Irrigation & Drainage)

Thesis Title: "Assessment of Groundwater Quality for Drinking and Irrigation purpose in District Umerkot, Sindh" 2023 – 2024

Research Experience

Research Officer/Lab Technician

United States-Pak Center for Advanced Studies in Water (USPCAS-W),
Mehran UET, Pakistan
Mar 2016 – present

Research Analyst

Baseline Information for Metals and Cations from Source to Consumer Tape
in Municipal Committee, Jacobabad. USPCAS-W, Mehran UET, Pakistan
Feb 2023 – present

Research Analyst

Water Governance and Capacity Building Support
Jacobabad, USPCAS-W, Mehran UET, Pakistan
Jan 2020 – Dec 2021

Research Analyst

MDC, UNICEF, "Drinking Water Analysis" USPCAS-W, Mehran UET, Pakistan
Jul 2019 – Aug 2019

Research Analyst

Australia Awards, Return to Work Plan (RTW) "Construction of
Pilot-scale Wetland For Treating Wastewater Of USPCAS-W",
USPCAS-W, Mehran UET, Pakistan
Aug 2018 – Nov 2018

Research Analyst

"Clean Water Project", USPCAS-W, Mehran UET, Pakistan
Jun 2016 – Dec 2017

Awards

Outstanding impact in clean water and sanitation for "Building a Natural Wastewater Treatment System that ensures potable water and saves thousands of liters per day for the community."

QUT Impact Stories Awards 2021

Best Graduate


Mehran University of Engineering & Technology (MUET) Alumni Association Award 2016

Certificates

Health, Safety and Environment Management by OSHES, HSE/5455.

Merit Certificate (Second position in B.E (Environmental Engineering))
Faculty of Architecture & Civil Engineering, MUET, Jamshoro 2013

Languages

English 

Urdu 

Responsibilities

- Taught related subjects in an interesting and dynamic way.
- Prepared and carried out lesson plans that complied with curriculum requirements.
- Encouraged students to think critically and solve problems.
- Facilitated hands-on learning experiences by conducting practical sessions.
- Evaluated students' progress using assignments, projects, and tests.
- Organize field arrangements and team management for sampling in compliance with established protocols.
- Reverse Osmosis (RO) Plant operation and laboratory testing parameters within the institute to ensure safe drinking water.
- Assure adherence to industry requirements by conducting physical and chemical assessments for the quality of water and wastewater in compliance with WHO guidelines.
- Analyze commercial samples obtained from industries, educational institutions, governmental agencies, and non-governmental groups; produce thorough reports.
- Make suggestions for enhancements and take part in creating and revising Standard Operating Procedures (SOPs).
- To guarantee accuracy and dependability, modern bench-top and field laboratory equipment needs to be maintained and calibrated.
- Arrange and make sure that the lab equipment is operating correctly while following Good Laboratory Practices (GLP).
- Maintain and update equipment logs and chemical inventory.
- Oversee the acquisition of supplies, equipment, and chemicals for research projects, commercial samples, and standard testing.
- Maintain a sufficient supply of consumables and report any shortages or missing goods.
- Compile all required information and provide reports on technical analysis.
- Oversee and provide instruction on water quality testing techniques to interns, lab personnel, and visiting students.
- Monitoring research students to make sure they become proficient in complex techniques for analyzing the quality of water.
- Ascertain adherence to laboratory safety standards by keeping up with new rules, tools, and supplies.
- Take part in the water and wastewater quality testing laboratory's training programs.
- Assist the quality department in guaranteeing that testing and analysis meet requirements and participate in the deployment of systems to enhance lab efficiency.
- Assist in keeping the lab clean and make sure there are enough supplies on hand.

Publications

Assessment of groundwater quality in Piryaloi, Pakistan: integrating GPI, SPI, and GIS for comprehensive analysis

Water Supply Vol 00 No 0, 1 doi: 10.2166/ws.2025.033, 2025

Abdul Shakoor Mahar; Ghulam Shabir Solangi; Altaf Alam Noonari; Kanya Lal Khatri; Sallahuddin Pahnwar; Hareef Ahmed Keerio; **Naila Gul**; Rabia Soomro; Jahanzeb Khaskheli

Advanced
Equipment
Operating Skills
& Software Skills

ICP-MS	●	●	●	●	
TOC-TN Analyzer	●	●	●	●	●
UV/Visible Spectrophotometer	●	●	●	●	●
HPIC	●	●			
GC-MS	●				
ARC GIS	●				
MS office 365	●	●	●	●	
Origin Lab	●	●	●		
EndNote	●	●	●	●	●
Mendeley	●	●	●	●	●

Wastewater Treatment Using Constructed Wetland and Sustainable Climate Change Mitigation

International Journal of Innovations in Science & Technology (IJIS),408-414.
2024

Naila Gul Shaikh, R.B Mahar, Sanam Bhatti, Asif Jokhio, Madeeha Channa.

The Evaluating Chlorine Dosage for Effective Disinfection and Antimicrobial Resistance Profiling in Drinking Water Under Climate Change Influences

International Journal of Innovations in Science & Technology (IJIS), 502-508.
2024

Sanam Bhatti, Rasool Bux Mahar, Tanveer A. Gadhi, Bahadur Ali, Zubair Ahmed, **Naila Gul**, Kamran Ansari

Assessment of Groundwater Quality using Water Quality Index, and Geo-Spatial Tools

Neutron, 22(2), 65-74.
2022

Ajmal, P.M., Babar, M.M., **Gul, N.**, & Jokhio, R.

Groundwater Quality Assessment of U.C Piryaloi, District Khairpur Mir's, Sindh Pakistan.

International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), 04(06)
2022

Abdul Shakor, Ghulam Shabir Solangi, Muhammad Munir Babar, **Naila Gul Shaikh**, Rafi o Zaman.

Analysis of Water Quality of MUET Water Treatment and Distribution System by Considering Seasonal Variations

1st Young Researchers National Conference on Water & Environment, USPCAS-W, 22-23 May 2017.
2017

Exchange Experience

Component 1: Strengthening Water Security and Cooperation in South Asia: Integrated Water Resources Management

Australia Awards
Aug 2018 | Brisbane, Adelaide, Canberra, Australia

Component 2: Strengthening Water Security and Cooperation in South Asia: Integrated Water Resources Management

Australia Awards
Nov 2018 | Kathmandu, Nepal

Safety Courses

Health, Safety and Environment Management by OSHES, HSE/5