



Job Description: Junior Wastewater Expert

About WASH Institute

Water, Sanitation and Hygiene Institute (WASH Institute), established in 2008, is a non-profit organization, dedicated to providing practical solutions to tackle a wide range of water, sanitation, hygiene and environmental issues in India and the neighbouring countries. WASH Institute aims to build the capacities of the sector through programs that provide a) training and academic courses, b) technical advisory and consultancy services, and c) grass roots community WASH programs.

WASH Institute has been conducting extensive training programs for government functionaries, private sector professionals, NGOs, and other practitioners with the objective of effective WASH implementation across the country under its WASH Academy vertical. In addition, our academic campus offers Diploma and Master level courses in sanitation, under affiliation to a leading university.

As part of our WASH Advisory vertical, we provide technical support services to central, state, and local governments in both urban and rural areas to support implementation of Swachh Bharat Mission (SBM) and Jal Jeevan Mission (JJM). Our community WASH vertical is executing WASH infrastructure for underserved communities in 15 locations across 8 states and 1 Union Territory in India.

We are a multi-disciplinary team that tackle complex multi-faceted problems of behaviour change, quality of service, and sustainability of WASH interventions. We are looking for experienced professionals to work with us towards our vision of “a world where all the communities have access to safe, protected and sustainable drinking water and sanitation services, with improved hygiene practices”. We are looking for experienced professionals to join our vibrant team.

About Project

WASH Institute has been providing technical assistance (TA) to Ministry of Housing and Urban Development (MoHUA) since 2015 for the implementation of Swachh Bharat Mission-Urban (SBM-U). With the funding support from Bill & Melinda Gates Foundation, in its third phase of the TA support, WASH Institute is assisting the ministry to implement SBM 2.0. The objective of SBM 2.0 is to enable 4000+ cities in India to become ODF++ through three key components: a) Toilet 2.0; b) Manhole to Machine hole; and c) Used Water Management. The SBM 2.0 seeks to take urban India to the next level of ‘Swachhta’.

In collaboration with MoHUA and the foundation, WASH Institute is executing a workplan for 2023-24 on the three components to accelerate implementation of SBM 2.0. The workplan will design and implement the three components in ten towns and lessons learnt

will inform policy/strategy changes for the implementation of SBM 2.0 for 4000+ cities in India. The project will develop sets of documents (guidelines, tenders, etc.) to propel other cities in the path of safe and sustainable sanitation.

Position	Junior Wastewater Expert
Number of vacancies	01
Location	Delhi/ Flexible location with willingness to travel across India
Desired Qualification and Experience	Degree in Civil Engineering / urban planning with 2-3 years of experience
Type of employment	Contract
Duration of contract	Project specific or one year, whichever is higher with possibility of extension

Key Roles and Responsibilities:

As a Junior Wastewater Expert, you will support the Senior wastewater Engineer for all technical aspects of urban wastewater treatment systems. You will carry out field investigations support the planning and design of sewerage and faecal sludge management system for different small and medium towns. S/he shall report to the Senior Project Manager (SPM) and Director, WASH Institute and support the Project Team on project related activities and any other operations and development across the Institute’s focus areas. The detail roles and responsibilities are:

- Support the SWE with design and development of wastewater and faecal sludge treatment projects for the town, including planning, process design, DPR preparation, while ensuring compliance with relevant regulations and industry standards.
- Support SWE in data collection such as wastewater/faecal sludge quantification using appropriate measurement techniques and quality analysis (including wastewater sampling) in coordination with the local labs
- Support SWE to carryout topographical and geo technical investigations for planning of urban wastewater management systems
- Support SWE to conduct detailed assessments of existing wastewater and faecal sludge management infrastructures, including collection, transportation, treatment, and disposal systems. Analyse data to identify gaps, challenges, and opportunities for improvement.
- Support SWE in developing sewerage system plans, layouts, and designs based on project requirements, local regulations, and industry standards. This

includes design of sewer network, manholes, pumping stations, and other related components.

- Provide technical support in selection and design of most appropriate wastewater and faecal sludge treatment technologies applicable for small and medium towns including developing technology selection matrix.
- Prepare/develop detailed engineering drawings, technical specifications for preparation of Detailed Project Report and other technical reports as per CPHEEO guidelines and required by various statutory bodies
- Prepare technical reports and presentations summarizing findings and recommendations.
- Support the capacity building team in capacity building initiatives and training module development.

Preferred Qualification and Experience

- Bachelor's /master's degree in civil or environmental Engineering, Chemical Engineering, or a related field.
- Extensive experience (2-3 years) in the design, operation, and management of wastewater treatment systems.
- In-depth knowledge of wastewater treatment processes, regulations, and environmental standards.
- excellent analytical and problem-solving abilities, with a focus on continuous improvement and optimization.
- Strong communication and interpersonal skills, with the ability to collaborate effectively with diverse stakeholders.
- Excellent written and verbal communication skills.
- Familiarity with relevant regulations and standards governing wastewater management.
- Ability to work effectively in a team and collaborate with cross-functional stakeholders.

How to Apply?

Please share your response to <https://forms.gle/oiEg1HX4ipZHntMg7> on or before June 18th, 2023. Only shortlisted candidates will be contacted.

WASH Institute is an equal opportunity employer and encourages women candidates to apply. WASH Institute does not discriminate candidates based on age, caste, class, sex, gender, religion, nationality, ethnicity, disability, and health.