



Water, Sanitation and Hygiene Institute (WASH Institute)

Environmental Engineering Internship (Paid) Opportunity

Context:

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) grassroots 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. In addition, our academic campus offers Diploma and Masters level courses in sanitation, under affiliation with a leading university.

As part of our WASH Advisory program, we provide PMU services to central, state, and local governments in both urban and rural areas to support the implementation of SBM, JJM, and AMRUT schemes. Our community WASH programs are currently ongoing in 15 locations across 8 states and 1 Union Territory in India.

We are a multi-disciplinary team that tackles 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 self-motivated individuals with a passion for WASH, who can contribute in short-term assignments through consultancy.

Key Responsibilities:

As an Environmental Engineering intern at WASH Institute, you will have the opportunity and responsibility to develop standard designs for Sequencing Batch Reactor (SBR), Moving Bed Bio Reactor (MBBR), and Membrane Bio Reactor (MBR) treatment plants. Reporting to the Wastewater Expert, your primary responsibilities include:

- ❖ Developing Microsoft Excel sheets for the design of sewage treatment plants functioning based on SBR, MBBR & MBR technologies
- ❖ Cover all aspects of sewage treatment plant design, from pre-treatment to tertiary treatment, focusing on BOD removal, nitrification, and denitrification processes.
- ❖ Compile process design calculations, list electro-mechanical equipment, and provide market costs for each component in a separate document, collecting industrial rates from at least two agencies.

Position	Environmental Engineering Intern
Number of vacancies	1
Location	Kerala (Hybrid working)
Type of engagement	Contractual
Duration of contract	1 month (May extend as per project requirement)
Remuneration	Rs. 30,000 – Rs. 40,000/month

Qualifications:

We are looking for individuals who meet the following criteria:

- ❖ Pursuing or completed Master's in Environmental Engineering from reputed Engineering colleges (IIT/NIT/Government Engineering colleges/Deemed universities).
- ❖ Self-starters and motivated individuals with a strong background in Environmental Engineering design.
- ❖ Deep understanding of the design concepts of physico-chemical, biological, and advanced treatment systems.
- ❖ Proficiency in Microsoft Excel (Intermediate to Expert).
- ❖ Strong writing skills.
- ❖ Fluency in English is essential.
- ❖ Preference given to individuals currently doing or having completed their thesis in the design of STP systems.

How to Apply:

Interested candidates should submit their updated curriculum vitae and a 200-word cover letter explaining why you are suitable for the Environmental Engineering internship. Applications can be emailed to swarnadas.sm@gmail.com by 3rd February 2024, mention the position applied for in the subject of the mail.

Interns who are selected for the position have the flexibility to choose a hybrid work location, allowing them to work both remotely and in-office. Additionally, there may be occasional travel required for meetings.

Only shortlisted candidates will be contacted.

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

Join us in making a positive impact on environmental engineering and wastewater treatment!