



Position: Engineering Team Leader-Tanzania

Reports to: Sr Director of Engineering (for all technical aspects), and report to Country Director (for administrative)

Team: Programs

Location: Shinyanga, Tanzania

Status: Full time, Exempt

Position Overview

The Engineering Team Leader-Tanzania is responsible for leading the implementation of Lifewater's water and sanitation infrastructure strategy, driving the engineering and construction planning processes and ensuring all water and sanitation infrastructure is planned, designed, and constructed per Lifewater standards. S/he is responsible for quality of all water and sanitation infrastructure output in the Lifewater Tanzania programs. The Engineering Team Leader-Tanzania will focus on the following areas:

Engineering planning and design quality

- Lead Program Engineering teams in engineering and construction planning (ECP) assessment and planning, designing, selecting the most appropriate solutions in each situation in-line with both Lifewater and government standards.
- Review different kinds of assessment recommendations in-line with both Lifewater and national/local government standards.
- Lead the Program Engineering teams in the development/revision of water and sanitation infrastructure drawings, bills of quantities, materials, labor and transportation requirements, budget estimation, and procurement list and plan.
- Lead Program Engineering teams, closely work with Global WASH Engineering Manager and Sr Engineering Advisor in project wide and annual water supply system and sanitation and handwashing facilities assessment, planning and design work and review until it gets final approval.
- Review and provide input for developing engineering resources (standards, guidelines, processes, manuals and tools) relevant to the context of the country and train the program engineers in using them once complete
- Lead Lifewater water quality testing supplies inventory and restocking forms (coordinate filling the projection for program ahead of time) and distribute to programs when purchased and ensure the efficiency.

Engineering implementation

- Support country and program team on procurement of materials, goods, labors, and contractors
- Review, approve, and monitor construction contracts for water and sanitation infrastructure constructions/installations (both of companies and of local labor)
- Coach and mentor program Engineering Team (WASH Construction Engineers and Project WASH Engineers) in successfully implementing the planned work as per the approved design, drawing and BOQ- including spearheading how the engineers use both regionally shared resources and program-specific resources in a strategic way for maximum output.
- Lead Program Engineering teams in scheduling work to meet agreed timelines, managing contractors, safety and upholding standards.
- Follow up quality and timely completion of engineering and construction and confirm the construction output meets Lifewater standards as well as the government requirement
- Review each water and sanitation infrastructure construction stage, final construction completion, and approve all mWater surveys data in line with Lifewater standards.
- Provide oversight of all construction activities including borehole drilling, all pipe system installation including large pipe system network, spring protection, school rain tanks, and institutions (school and health facility) sanitation and handwashing facility. This is done through regular site visits, regular support meetings with Program Engineers, and regular review of ongoing including construction progress submitted through Asana, completed infrastructure and associated mWater survey data submitted.
- Create and monitor communication channels (Asana and Teams) for program and supervise the ongoing and completed construction works
- Support field staff in using Lifewater's water quality test kit efficiently, for all water infrastructure assessments/prescreening, constructed or rehabilitated/validation and undergoing monitoring by Lifewater and external tests.
- Manages engineering and construction records and any project revisions

Water and sanitation monitoring and sustainability

- Contributes to water and sanitation infrastructure sustainability monitoring discussions
- Support engineering and community health team in water and sanitation infrastructure monitoring plan, scheduling and implementations
- Supports programs team in sustainability strategy implementation, gather learnings and recommend for improvement.

Leadership and Capacity Building

- Proactively support management of programs engineering operations, in collaboration with Country Director and Program Manager
- Contribute to development of engineering training resources, in collaboration with the Sr Engineering Advisor, Global WASH Engineering Manager and Sr Director of Engineering
- Work closely with Program Managers to facilitate the VHV program, making sure that the water and sanitation infrastructure components are

aligned with the full program, and that important timing such as training water committees and school O&M training and all prerequisites are completed at the right time.

- Serve as the Subject Matter Expert for engineering including evaluating effectiveness of water and sanitation infrastructure installations and reflective practice and learning events by program engineering staffs.
- Support and lead, as appropriate, specific trainings for Engineering staff such as Hydraulic design for water supply distribution networks, mapping, Water Quality Training, Construction Management Training, Quality Control and Assurance (mix design, ratio, materials quantities, etc), construction material testing including onsite testing, mWater surveys, etc.
- Make necessary support for Country Director and Program Manager during arrangements for trainings to be conducted by Lifewater HQ in country
- Prepare and produce technical programme weekly and monthly reports
- Provide WASH technical and strategic input into the development of the Country/global Strategy

Proactive Compliance

- Support in-country leadership to ensure the effective and efficient use of financial and material resources within the policies and procedures of Lifewater International in the country.
- Support in-country leadership to ensure all government standards and reporting requirements for water and sanitation infrastructure construction are met
- In conjunction with in-country leadership, support teams in project design, budgeting, developing concept notes, ensuring that projects meet government, and donor planning, programming, monitoring, reporting and financial requirements, including program quality standards.
- Ensure that findings and recommendations from various accountability mechanisms such as Reviews, Operational and Finance Audits, Programme evaluations, external and internal evaluations, are acted upon in a timely and effective manner.

Networking and Partnership

- Maintain effective communication and pro-active relationships with District/Regional -level actors including RUWASA to strengthen systems for long-term buy-in and sustainability of the intervention.
- Regularly represent and participate in country-level WASH sector network meetings including TAWASANET
- In coordination with other members of the global technical team work closely with Lifewater/RUWASA field staff on capacity building and knowledge sharing within the region.

Additional

- Will undertake other tasks as assigned by Country Director and Sr Director of Engineering

Work Experience and Qualifications

Required Qualifications:

- Adherence to Lifewater's Vision, Mission and Values

- Passion for Lifewater's mission of serving vulnerable communities and children
- Bachelor degree from an accredited institution in Civil, Hydraulic, Water Resource or Environmental Engineering or in related field
- 6+ years of experience in implementing water, sanitation, and hygiene (WASH) programs. At least three of the six years of experience should be in solid practical experience in leading engineering team in carrying out planning, designing, constructing, and monitoring of large-scale pipe water supplies including solar powered system projects.
- Proficiency with hydraulic modeling using WaterCAD/WaterGEMS/Epanet; and AutoCAD
- Proven experience in solar pump system sizing tools, such as Lorent or Grundfos; and knowledge of electromechanical works
- Excellent knowledge of current approaches to planning, design and construction of small-scale and large-scale community and institutions water and sanitation infrastructure, with experience in assessing, planning, designing, constructing, and monitoring water, sanitation infrastructure
- Extensive knowledge of appropriate technology including solar powered water supply system, water quality, and WASH industry.
- Proven ability to work closely and develop strong relationships cross-culturally with others
- Regular travel to program areas as needed
- Legally eligible to work in Tanzania; no sponsorship will be provided

Preferred Qualifications

- Post graduate degree in Hydraulic, Water Resource or Environmental Engineering or in related field
- Experience with mapping with ArcGIS tools
- Proficiency in structural analysis software such as AutoCAD/ROBOT, SAP, or ETABS
- Experience using project management software, such as Asana

Physical Qualifications

- Prolonged periods of sitting at a desk and working on a computer

Compensation

Lifewater offers a competitive salary with excellent benefits. Benefits include health, dental, vision, group personal accidents insurance, and a retirement plan. The non-monetary compensation includes a unique opportunity to be part of an innovative, meaningful, and fun organization that is changing the world.

Who We Are

Lifewater International ("Lifewater") is a non-profit Christian community development organization dedicated to effectively serving vulnerable children and families by partnering with underserved communities to overcome water poverty. With experience in more than 40 countries since 1977, Lifewater serves people by providing them with contextually appropriate water, sanitation, and hygiene (WASH) interventions. We walk alongside families, leaders, schools, and churches to overcome all forms of water poverty by helping them learn to live in healthy relationship with God and the environment and to recognize how small changes can transform their life and community.

We serve communities in the rural regions of East Africa and Southeast Asia, with active programs in Cambodia, Ethiopia, Uganda, and Tanzania; countries with a desperate lack of resources to provide basic water and sanitation services to rural children and families. We have offices in San Luis Obispo, CA; Bentonville, AR; Addis Ababa, Ethiopia; Kampala, Uganda; Shinyanga, Tanzania; and Siem Reap, Cambodia, as well as individual program offices. Since our inception, Lifewater's worldwide team has impacted the lives of more than 2.5 million people. And we're just getting started.

Applications Instructions:

All applications should be done through

<https://lifewater.bamboohr.com/careers/117>

**and not otherwise. Application via email or any other platform won't be considered
the deadline of the applications is **17 March 2024 5:00PM.****