Junior Systems Engineer

Reports to: Senior Engineer
Location: Stone Town, Zanzibar
Start Date: July 2022

Who we are

D-tree International is a global digital health organization dedicated to ensuring that everyone has access to high-quality primary healthcare in underserved areas. We do this by working with governments to design, build and deploy digital tools for frontline health workers that improve their ability to deliver high-quality, evidence-based care. D-tree **engages** with governments to develop a shared vision for the potential of digital health, **demonstrates** the effectiveness of digital systems to improve health outcomes, and **accompanies** governments to scale these digital systems nationally and institutionalize them within their broader health systems.

Since 2011, D-tree has partnered with the Zanzibar Ministry of Health to implement an innovative digital health program, [Jamii ni Afya](#) ("Community is health") supporting Community Health Volunteers to provide health services within their communities. This program has consistently demonstrated improved health outcomes, a strengthened community health system, and increased use of data for decision-making. Over time, Jamii ni Afya has grown from a pilot to a national program and has demonstrated how digital technology can transform the quality of a health system. The Zanzibar government has committed to adopt Jamii ni Afya at national scale; integrating digitally-enabled Community Health Volunteers into their formal Community Health Strategy. This represents the world's first nationally scaled digital community health program, bringing high quality health services to the doorsteps of all of Zanzibar. The digital health program reached full scale in August 2021, allowing D-tree to focus on program sustainability, quality and impact.

Who you are

We are seeking a Junior Systems Engineer based in Stone Town, Zanzibar, to work closely with the Engineers, Data Lead, and Program Managers to help in various aspects of the implementation and deployment of D-tree digital systems. You will work under operative supervision of the Technology team/Program Team and will grow in your responsibilities and contribution as you gain expertise in our projects and tools.

You are someone who is always curious and an independent worker. You are just as comfortable learning new technology tools as you are meeting health workers in a village to understand their user experience. You have a passion for using technology to improve health systems. Maybe you don't have a lot of experience, but you have personally learned about some tools like ODK or DHIS2, and have created experimental applications, or personal projects with database functionality.

What you will do

Your main role will be to work with the D-tree technical/program team in Zanzibar to support multiple operational activities of the systems based on DHIS2 and Community Health Toolkit, helping build, configure, deploy, test and document these digital health tools. Working with our technology team, you will understand and define what it takes to build the digital health systems to improve people's well-being and reach our program goals. You will perform the appropriate software quality activities such as test design and test execution to achieve optimal functionality of software components.

Once applications are deployed, you will manage troubleshooting and user support and participate in continuous evaluation and improvement. You will also participate in activities transferring the systems knowledge to the government offices, such as writing documentation, delivering training and overseeing the setup of system infrastructure and also process transfer between teams. Data work will also be an important area, focusing on review of compliance with our data security standards, ensuring data availability for stakeholders in our projects and creating dashboards to share indicators.

You will also be an internal support resource for the D-tree team in Zanzibar, helping setup the PCs and phones for our team members as well as ensuring data security and infrastructure availability like wi-fi, Dropbox.

Specific responsibilities include:

- Support the development of health applications for Android mobile phones
- Quality assurance of the mobile applications
- Setup and maintenance of servers for back-end and data
- Help in IT processes for the Zanzibar office
- Operational maintenance and updates of the health systems environments
- Maintain communication with program team to execute the technical/operational needs of the programs
- Write documentation about our systems and support training delivery

Qualifications

The following attributes are a general overview, but we will consider individuals who do not meet all of the details below if you have the right skillset and attitude.

- Bachelor's degree in a relevant field like IT, computer science and information systems, complemented with your experience working in digital environments on the activities described.
- Experience working with these technologies: Javascript, XML, JSON, Postgres and NoSQL databases
- Must be able to work independently, multi-task, collaborate with a distributed team
- Excellent written and spoken English
- Committed and excited to contribute in different types of tasks, from software development to producing documentation, testing, training and working with end users.
- Experience working in a similar technology support role, but eager to expand your areas of contribution

Salary Range:

12M to 24M TZS gross annual salary inclusive of all cash compensation.

Note: Starting salaries typically fall in the lower half of the salary range; however, they are ultimately determined by the scope of the position, the candidate's relevant experience, and internal equity.

Application information

To apply for this role please fill in the google form here. Only applicants who respond to all questions and include their CV as well as a thoughtful, tailored cover letter will be considered.

This position will run through December 30, 2022 with the possibility of extension depending on program funding.