

Job Opportunity – Health Information Systems (HIS) Developer

Location: Dar es Salaam

Application deadline: Sept 30, 2021

Start date: November 1, 2022

Background:

The University of California San Francisco (UCSF) is engaged in a five-year Cooperative Agreement with the U.S. Centers for Disease Control and Prevention-Tanzania (CDC-Tanzania) to provide strategic information and health information systems (HIS) technical assistance to the Ministry of Health, Community Development, Gender, Elderly and Children (MOHCDGEC) as well as the United States' President's Emergency Plan for AIDS Relief (PEPFAR) and their implementing partners (IPs). We are recruiting an individual through our affiliated international NGO 'Global Programs' to serve as a Health Information Systems Developer.

This is a full-time position with an initial contract through September 2023 and the possibility of extension subject to continued funding. The position is expected to start on November 1, 2022.

Main duties and responsibilities:

Under the supervision of the HIS Developer Lead, the HIS Developer shall be responsible for designing, developing, implementing, testing, maintaining, auditing, and improving new and existing health information systems and project software. The developer will also bring expertise to activities related to developing EMR (electronic medical records), Lab, and other health information systems. The developer shall also ensure that all software developed conforms to set software development standards by conducting rigorous diagnosis, tests, code debugging, and technical documentation through reference manuals.

Specific responsibilities include:

- Work with the HIS team to design software solutions by studying information needs, systems flow, data usage, and work processes while adhering to the software development lifecycle
- Evaluate, maintain, and evolve existing health information systems such as CTC2, CTC3, CTC Analytics, and Monthly Portal
- Assist the HIS team in designing and implementing interoperability between existing health information systems such as CTC2, CTC3, CTC Analytics, Monthly Portal, Lab Visual Tool, IQSMS, PTCQI, etc
- Develop Application Programming Interface (APIs) for various applications using Java
- Optimize various data systems to improve performance
- Maintain Java based application
- Support the piloting, rollout, training, and maintenance of HIS systems to Implementing Partners.
- Investigate, analyze, and make recommendations to management regarding technology improvements, upgrades, and modifications.
- Analyze user needs and software requirements to determine feasibility of design within time and cost constraints.

- Develop and coordinate software system testing and validation procedures, programming, and documentation.
- Prepare reference materials for users by writing operating instructions, flowcharts, layouts, diagrams, charts, code comments, and clear code.
- Undertake other tasks within the scope of the role as directed by management from time to time.

Experience, skills, and minimum required qualifications:

- A Bachelor's Degree or equivalent qualification in computer science, software engineering, or information systems required. Experience working with health information systems required.
- A minimum of 5 years of experience as a software developer or engineer; **demonstrable** experience in developing a variety of software systems while taking on increasing responsibility for analysis, design, implementation, and development tasks [reference required]
- **Advance knowledge and skill with Java using Spring framework and C#.** Advanced knowledge in Python and other common programming languages is an added advantage.
- Advance knowledge and experience on developing mobile application using Flutter framework, Android SDK.
- Advance knowledge and experience on using Docker containers for deployment. Using other DevOps tools is an added advantage.
- Advance knowledge and skills on using data processing tools like RabbitMQ and Nifi
- Advanced experience developing data-driven applications utilizing significant relational database engines as part of the overall application architecture (experience with the following are highly desirable: MS SQL Server, PostgreSQL, MySQL).
- Working experience using jQuery, Git, Restful web services and Agile methodology.
- Proficiency in developing and troubleshooting complex software systems that run in mixed environments including Windows on desktop, server, tablet, and mobile systems.
- Fluent in written and spoken English and Swahili.

Other desired skills/qualities:

- Excellent skills in critical thinking and analysis
- Excellent organizational and oral/written communication skills
- Ability to work independently and manage various tasks under tight deadlines

To Apply:

All applicants must address each selection criterion detailed in the minimum requirements above with specific and comprehensive information supporting each item.

All applications must include the following:

- A current CV with names and telephone numbers for at least 2 referees
- Copies of academic and professional certificates

Applications and supporting documents should be sent via e-mail to

info.tanzania@ucglobalprograms.org and must be received by September 30, 2022.

NOTE: Only short-listed candidates will be contacted.