



## **UNIVERSITY OF NAIROBI EXTERNAL JOB VACANCIES (PROJECT POSITIONS)**

Applications are invited for the following position:

### **SENIOR OPENMRS/REACTJS DEVELOPER, HISTAC PROJECT – AD/12/227/21 (1 POST)**

#### **Background**

The Technical Assistance Platform (TAP) is a CDC-funded project aiming to improve health informatics capacity in various countries, including Kenya. The project is implemented by three main partners - the University of California, San Francisco (UCSF), PATH and JEMBI. Collaborating with UCSF on this is the University of Nairobi, which is the entity to recruit this position. The project focuses on three technical areas: central data strategies; OpenMRS for HIV care; and policies and governance. Due to the HIS landscape in Kenya and the various stakeholders and partners, it is expected that a considerable amount of coordination between stakeholders is required to implement all the activities. University of Nairobi is seeking to recruit an Implementing Partner Coordinator (IPC) to support CDC Kenya with the coordination of TAP activities.

#### **The Position**

Reporting to the HIS Software Development Technical Lead in consultation with the Principal Investigator, the Senior OpenMRS/ReactJS Developer shall be responsible for ensuring the alignment of web design and user experience requirements, optimizing web pages for maximum efficiency and maintaining consistency across all pages. He/she will be required to work in a team alongside with Backend Developers, UX Designers, Business analysts to ensure project requirements are met consistently. The developer shall also ensure that the different software developed conforms to country software development standards by overseeing a business analyst team conducting rigorous diagnosis, tests, code debugging, and technical documentation through reference manuals. The developer must be able to demonstrate their skills and show proof of their OpenMRS work.

#### **Responsibilities**

- Work with HIS business analysts and developers to design software solutions by studying information needs; systems flow, data usage, and work processes while adhering to the software development lifecycle
- Work with UX Developer to determine the structure and design of web pages, ensuring user experience determines design choices
- Develop features to enhance the user experience, with the right balance between functional and aesthetic design.
- Optimize web pages for maximum speed and scalability

- Develop OHRI program workflows from data collection forms, clinical dashboards with decision support summaries, monitoring and clinical reports
- Work with HIS business analysts, developers, and IT support staff to support the piloting, rollout and maintenance of HIS systems in public health facilities.
- Work with HIS business analysts and developers to investigate, analyse and make recommendations to management regarding technology improvements, upgrades and modifications
- Work with HIS business analysts and project managers to analyse user needs and software requirements to determine feasibility of design within time and cost constraints.
- Work with HIS business analysts and developers to prepare reference materials for end and technical users by writing operating instructions, flowcharts, layouts, diagrams, charts, code comments and clear code
- Undertake such other tasks within the scope of the role as directed by leadership from time to time.

### **Required Academic Qualifications**

- A Bachelor's degree in either Software Engineering; Computer Science or Health Informatics
- A postgraduate qualification will be an added advantage.

### **Experience, Required Skills, Knowledge and Abilities**

- A minimum of five (5) years' experience in software development for health information systems; with at least 3 years developing OpenMRS solutions and 2 years of frontend development using JavaScript frameworks, specially ReactJS
- Ability to meet deadlines against multiple priorities and schedules, as well as the ability to manage scope creep and immediately alert leadership of issues with timelines
- Ability to speak to high level leadership who may need technical descriptions and developments translated to ease understanding and acceptance
- Advanced experience in developing data-driven applications utilizing significant relational database engines as part of the overall application architecture (experience with any or all of the following highly desirable: PostgreSQL, MySQL, Oracle, MS SQL Server, H2 SQL)
- Experience with React and Micro-frontends-based architectures
- Working experience using HTML, CSS, JavaScript and ReactJS, Spring, Hibernate, JQuery, Subversion, Liquibase, Git, Restful web services, Agile methodology, Maven,
- Advanced knowledge and demonstrable skill with popular open source programming languages (must include JavaScript)
- Proficiency developing and troubleshooting complex software systems that run in mixed-environments including Linux, Unix and/or Windows on desktop, server, tablet, and mobile systems

### **Terms of appointment**

This a position whose tenure is one (1) year contract renewable based on performance and by mutual consent. The salary is negotiable depending on the level of education and work experience.

## **NOTES**

1. Applicants should email their application letters, certified copies of certificates and curriculum vitae (CV) giving details of their qualifications, experience and three (3) referees indicating their telephone contacts and e-mail contacts.
2. Applications and related documents should be forwarded through applicants' Heads of Departments, where applicable, and be addressed to the Director, Human Resource, University of Nairobi.
3. Applicants should state their current designations, salaries and other benefits attached to those designations.
4. The application letter must bear the reference code indicated in the advertisement.
5. Late applications will not be considered.
6. Applications should be emailed to [recruit-sorjdhp@uonbi.ac.ke](mailto:recruit-sorjdhp@uonbi.ac.ke) as one file in PDF.

**CLOSING DATE: FRIDAY DECEMBER 17, 2021**

**THE UNIVERSITY OF NAIROBI IS AN EQUAL OPPORTUNITY EMPLOYER.  
ONLY SHORTLISTED APPLICANTS WILL BE CONTACTED.**