Position Title: **Health Information System and Software Programmer (1 *position*)**
Reports to: IT Manager
Employment Type: Full-time
Job Location: Dar es Salaam
Travel: Up to 20% in intervention districts outside of job location

Overall, Job Function:

Health Information System and Software Programmer is responsible for developing and maintaining ICAP's health information systems. Under the supervision of the IT Manager and dotted line to the SI Director, S/he will be responsible for designing, developing, implementing, testing, auditing, and improving the existing HIS systems and project software. In addition, the HISSP will lead the ICAP HIS unit to bring interoperability between existing HIS, EMR, lab, and other vertical program areas to support data integration and robust data review for M&E activities. The HISSP also will ensure the developed systems conform to standards through system testing, debugging, and technical documentation through reference manuals.

Specific Responsibilities and Duties:
- Design and develop software solutions through studying the existing Data collection and M&E needs
- Evaluate, maintain, and evolve existing health information systems such as DHIS2, CTC2, and other systems used by ICAP for data collection
- Work with the HIS team to enhance the DHIS2 functionalities and add more interoperable features such as mobile data collection
- Work with the data collection team to support data integration and extraction from multiple databases to support easy extraction of data for MER indicators reporting from the CTC2 database
- Work with the M&E team to design interactive dashboards from CTC2 data integration and other DHI2 interoperable systems for robust data review.

Qualifications, Knowledge, and Skills:
- **Required Education**: Bachelor's degree or higher in Computer Science, Computer Engineering, Software engineering, Software development, Information technology, or Information systems.
  - **Preferred:** Master's level degree or higher
- **Required Technical Experience**:
  - At least 3 years experience in developing data-driven applications
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  - Experience in relational database systems development
  - Experience in at least 2 of the following MS SQL servers, PostgreSQL, MySQL, MS Access, DHIS2, desirably DHI2, and SQL
  - Working experience using Git, Agile, and JSON with popular programming languages (C#, JAV, or PHP7)

- o Knowledge in Python, Power BI, or SAS is an added advantage
- o Experience in troubleshooting complex software systems that run in ed environment, including Windows on desktop, server, tablet, and mobile systems
- o Demonstrate skills in extract transfer load ETL or DHI2 integration systems
- **Other desired skills**
  - o Critical thinking and analytic skills
  - o Ability to work independently with minimal supervision and strong problem-solving skills.
  - o Flexibility to work after normal working hours and on weekends with significant travel outside of duty station.
  - o Familiarity with Tanzanian context; fluency in English and Kiswahili required.

To apply please visit: Global Careers - ICAP at Columbia University