Call for Letter of Interest
for
Android Developer

Position	Android Developer (International)
Nature of the assistance	Mostly remote but partially on-the-site
Tentative Duration	20 July 2020 to 30 September 2020 (intermittent).
Deadline for Submission of Letter of Interest	**16 Jul 2020.**
Implementing Agency	National Department of Education, FSM
Contact Person	TO: Kalwin Kephas (kkephas@national.doe.fm) Wayne Mendiola(wmendiola@national.doe.fm) CC: Quincy Lawrence (Quincy.Lawrence@national.doe.fm)

Background

In order to improve Education Management Information System (EMIS) a joint-project[1] was launched in the Federated States of Micronesia (FSM) in FY 2016/17. Through this joint project, an integrated system has been set-up by developing a platform for EMIS, equipping National Department of Education (NDOE) and State Department of Education (SDOE) with appropriate hardware and software upgrades, and has already digitized most of the historical data that were available in different formats and at the different State departments. Moreover, through the joint initiatives, capacity of school principals and data managers at SDOE has been built by giving them a thorough orientation on data management and hands on training to the data managers about the integrated platform called FedEMIS.

FedEMIS has laid down a platform that can cater basic data requirements at the national and State Department of Education. However, the needs in each State Departments vary to some extent and hence the need to incorporate them in the FedEMIS is crucial. While FedEMIS has been initially designed largely to addresses national interests and requirements[2], there has been requests for specific data requirement from SDOEs to be included in the EMIS. Similarly, teacher credentials, their age and retirement time is on high demand for planning their replacements in time. Water, Sanitation and Hygiene (WASH) related data has also become necessary to be included in the regular FedEMIS.

Meanwhile, FSM has recently made an agreement with the Asian Development Bank for the implementation of a six-year long project which broadly aims to Improving Quality of Basic Education (IQBE) in the FSM. The primary outcome of the IQBE is to improving student's learning achievement

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1 Technical Assistance was received from the US government under the Supplementary Education Grant (SEG) and ADB's regional grants for National Educational Planning and Management (NEPM).
2 JEMCO recommended 21 education indicators to be covered by the FedEMIS, however, it was not possible at this stage to include all 21 indicators. Hence, FACSSO agreed to go ahead with the indicators that are possible in terms of its cost and feasibility.

in reading to 50%, from its baseline, by 2023. This will require regular collection and reporting on student performance data. Similarly, FSM as a signatory to Sustainable Development Goal has commit to achieve SDG targets by 2030.

In view of all of these and also considering the nature and complexity involved in the development of an efficient EMIS, NDOE has already draft a five-year master plan for EMIS for the FSM. The Master plan has laid down some initial thoughts on having an integrated model of education data management system that incorporates State specific data needs by having State's own sub-platform that are almost like independent but are integrated within the main EMIS.

Hence, the NDOE intends to solicit Letter of Interest (LOI) from qualified and competent individuals to provide technical assistance to provide support in refining and consolidating the FedEMIS by developing a robust system that is capable of managing State and school level needs as well as making it a one integrated system.

Objective

The objective of this solicitation is to provide continued assistance to NDOE to support the on-going development of an integrated FedEMIS that incorporates both National and State DOE's requirements, including building capacity of the National and State DOE's data managers so that they are competent enough to manage FedEMIS independently.

Scope of Work
The consultant will be required to be proficient in achieving the following **tasks**:
- Developing Android apps using the Java programming language.
- Designing Material Design User Interfaces (UI) for Android devices.
- Designing data collection apps on Android devices.
- On-going development on current Pacific EMIS Education Survey Tool.
- On-going development on current Pacific Open Education Data app.

Outcome
- All issues fixed
- A new version of the Pacific Open Education Data app with newly supported data analysis features

Budget and Timeframe
Maximum budget for this project is USD20,000. Timeframe is tentatively between 20 July 2020 to 30 September 2020. Consultant should provide his/her daily rates and estimated schedule of intermittent work.

All of the work can be done remotely due to the on-going Covid-19 all over the world with travel restrictions reaching an unprecedented level.

Consultant is expected to provide daily rates, the number of days proposed to complete the work, the cost of travel and accommodation for 1 week visit to Pohnpei, Federated States of Micronesia for the Android developer that will come train the NDOE staff.

Reports To

Consultant reports to the National Department of Education (NDOE) technical team. Consultant must confirm with the NDOE team before proceeding with any of the work as the team will define priorities based on the needs on the grounds here in the FSM and its states.

Required experience
A minimum of 7 years of experience in the following technologies:
- Android/iPhone app development
- Android user interfaces using the material design framework
- The Java programming language including related compiling, build tools, IDEs, etc. Especially in the context of Android apps.
- Flutter framework and Dart programming language.
- The Swift or Objective C programming languages including related compiling, build tools, IDEs, etc. especially in the context of iPhone/iPad apps
- Working with data interchange formats including JSON and XML
- Working with cloud providers
- Excellent English communication skills

Desirable experience
- Education data and Statistics
- Work in developing countries, small Pacific Island nation more specifically
- Know the Pacific EMIS and Pacific Open Education Data projects very well

Submission of Letter of Interest (LOI):
NDOE encourages submission of Letter of Interest (LOI) from qualified and competent individuals that meet all requirements. Submit your LOI including the following:
- detailed CV of the primary developer;
- list of similar projects undertaken with screenshots;
- proposed rough plan of activities with schedule;
- expected daily rates;

to the National Department of Education ***no later than 16 July 2020*** to the contact person at the top of this document.