Federated States of Micronesia
National Department of Education
P.O Box PS 87, Palikir Station
Pohnpei, FM 96941
Phone: (691) 320-2609 Fax: (691)320-5500

Call for Letter of Interest
for
Senior PHP Developer

Position	Senior PHP Developer (International)
Project budget (maximum)	USD ??
Nature of the assistance	Mostly remote and partially on site.
Tentative Duration	21 June 2018 to 30 September 2018 (intermittent).
Deadline for Submission of Letter of Interest	**15 June 2017.**
Implementing Agency	National Department of Education, FSM
Contact Person	TO: Kalwin Kephas (kkephas@national.doe.fm) CC: Weison Weital (weison.weital@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 or as a separate component to be integrated. This particular need is a simple Student Information System (SIS).

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 in reading to 50%, from its baseline, by 2023. This will require regular collection and reporting on

---

[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.

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. This plans also integrates a SIS as an essential component.

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 SIS chosen the by the NDOE Data team to be used in the pilot phase.

Objective

The objective of this solicitation is to provide continued assistance to NDOE to support the completion to stable status along with any required customization of an existing open source Student Information System (SIS).

Scope of Work
The consultant is required to be proficient in achieving the following **task**:
- Know how to work with and contribute to existing open source project. The OpenSIS Responsive Design (https://github.com/OS4ED/openSIS-Responsive-Design.git) is still in testing phase and contains a number of issues that need to be addressed before being used in a production environment. The main task is to bring this software code base to a production ready stable release on par with the OpenSIS community edition classic non responsive UI (https://sourceforge.net/p/opensis-ce/code/HEAD/tree/).
- Conduct extensive testing of the software until all issues are eliminated.
- Prepare complete user guide for OpenSIS Responsive Design to be included in the repository. This user guide should ideally be developed with a technology that can export to a PDF or HTML.
- Developing XML, JSON RESTful APIs in PHP from an MySQL Server database for integration with external systems. This API should be able to provide:
  - All basic data for a particular school (i.e. name, school ID, school type, school authority and whatever OpenSIS has the ability to record for schools
  - For a particular school year all the student enrolment (i.e. list of students with their names, ID, gender, DoB and all other enrolment data for each student for that school year)
  - For a particular school year all the staff (i.e. list of staff including teachers with their names, DoB, gender, certifications, etc.)

The first two task above are urgent and needed before July. The last one is less urgent and all work must be complete before end of September.

Outcome
- The OpenSIS Responsive Design (https://github.com/OS4ED/openSIS-Responsive-Design.git) has reached production ready stable release on par with the OpenSIS community edition classic non responsive UI (https://sourceforge.net/p/opensis-ce/code/HEAD/tree/).
- The OpenSIS Responsive Design has been thoroughly tested with no major issues.

- Complete user documentation has been developed
- The OpenSIS Responsive Design has a new basic RESTFul API to interact with external system
- Some basic training has been provided to the local National Department of Education (NDOE) technical team.

Budget and Timeframe

Maximum budget for this project is USD??. Tentative timeframe is between 21 June 2018 to 30 September 2018. Consultant should provide his daily rates and estimated schedule of intermittent work.

Most of the work can be done remotely but consultant is expected to come visit FSM for at least 1 week to meet the NDOE staff in person, conduct short trainings with NDOE technical team (3 members). Consultant is expected to cover his/her own cost for the travel and accommodations for 1 week visit to Pohnpei, Federated States of Micronesia.

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.

Experience Required
A minimum of 10 years of experience in the following technologies:
- Proficient in PHP programming language
- Proficient in HTML, CSS, Javascript and the Bootstrap framework to design responsive web applications
- Proficient in SQL, in particular MySQL
- Excellent English communication skills

Desirable experience
- Education data
- Work in developing countries, small Pacific Island nation more specifically

Submission of Letter of Interest (LOI):
　　　NDOE encourages submission of Letter of Interest (LOI) from qualified and competent individuals that meet the basic requirements. *Submit your LOI including your detailed CV, proposed plan of activity with schedule and expected daily rates* to the National Department of Education (wweital@national.doe.fm) ***no later than 15 June 2018***.