Food and Agriculture Organization
of the United Nations

CALL FOR EXPRESSIONS OF INTEREST

Software Developer (Server side) Consultant

Contract duration: 6 months
Vacancy No. IRC3745

Deadline for Applications: 7 December
Duty station: Rome, Italy

Tasks and responsibilities:

The consultant will contribute to the development of server-side components of the WIEWS and africaFertilizer.org (AFO) applications using the core components of the FENIX IT platform, in coordination with the FENIX team.

Under the overall guidance of the CIO Director and the Senior IT Officer, and under the direct supervision of the FENIX Coordinator, the consultant will perform the following tasks:

1. Analyze the functional requirements and the databases of the two applications and develop new database structures to streamline the data management process and optimize the performance of the data visualization and download features.

2. Develop services to validate data against the appropriate metadata (e.g. codelists) and to convert data in different formats.

3. Develop web services to harvest and synchronize data between databases and to create/update the cached data that is used by the application to extract and display data.

4. Provide services for creating compressed files for allowing users to download data in bulk. The update frequency of these files should be synchronized with the update of the databases.

5. Test the developed functionalities and carry out bug-fixing.

6. Other tasks as required.

Key performance indicators	
Expected Outputs:	Required Completion Date:
• The new databases of the two applications are developed and tested	January 2017
• Validation routines	March 2017
• Web services for data harvesting and synchronization	April 2017
• Creation of the bulk download files	May 2017

Candidates should meet the following requirements:

Minimum Requirements

University degree or equivalent in information technology or related disciplines, with good experience in Java and JavaScript programming.

Competencies

- Experienced Java developer with skills in database administration, data analysis and enterprise solutions design.
- Good knowledge of JavaScript
- Working knowledge of English

Technical/Functional Skills

Proven knowledge of the following products and technologies:

- Java Enterprise Edition 7 (especially servlet 3.1, REST services)
- Jackson and Apache POI Java libraries
- Wildfly and Tomcat application servers
- PostgreSQL DBMS
- Good knowledge of: Git/Github, Linux OS.

Selection criteria

- At least 2 years of programming experience in Java
- Ability to work in team
- Ability to work with tight deadlines
- Working knowledge of English

Additional Information

FAO seeks gender, geographical and linguistic diversity in its staff and international consultants in order to best serve FAO Members in all regions.

All candidates should adhere to FAO values of Commitment to FAO, Respect for All and Integrity and Transparency.

How to apply

All applications are to be made through FAO's **iRecruitment** system. Click on the link below to access **iRecruitment**, complete your online profile and apply for this Call for Expression of Interest.

http://www.fao.org/employment/irecruitment-access/en/

In order for your application to be properly evaluated, please ensure that all sections of your iRecruitment account are completed. Incomplete applications will not be evaluated.

If you need help, or have queries, please contact: **iRecruitment@fao.org**