Food and Agriculture Organization of the United Nations

CALL FOR EXPRESSIONS OF INTEREST - VACANCY ANNOUNCEMENT N°: IRC4560

Issued on: 29 August 2017
Deadline For Application: 21 September 2017

JOB TITLE: Senior GIS Specialist	**TYPE OF CONTRACT:** Consultant
	DUTY STATION: Rome, Italy
ORGANIZATIONAL UNIT: INFORMATION TECHNOLOGY DIVISION	**DURATION:** 11 months

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

Qualified female applicants and qualified nationals of non-and under-represented member countries are encouraged to apply.
Persons with disabilities are equally encouraged to apply.
All applications will be treated with the strictest confidence.

Organizational Setting

The CIO defines FAO IT policies, strategy, architecture and standards and monitors organizational compliance and the mechanisms for managing FAO's information and data, on behalf of the business owners, avoiding duplication and ensuring security.

This job is located in the Geospatial information systems area, which falls within the IT Design & Technology unit of the Information Technology Division (CIO).

Reporting Lines

The consultant will work under the direct supervision the Spatial Team leader and the overall supervision of the Senior IT Design & Technology Officer CIO.

Tasks and responsibilities

The consultant will be responsible for day-to-day development and support of corporate Geospatial applications, platforms and data services. He or she will provide engineering know-how to support data science and remote-sensing activities using Google Earth Engine, JavaScript and Python. Data Science and remote sensing activities include land cover classification, climate change forecasting, aquaculture mapping, and soil and water management. The consultant will also help streamline the geospatial data lifecycle, enabling self-service capabilities for importing, analyzing and publishing geospatial data.

The IT Division is in the midst of a digital transformation towards a new platform based approach. As part of this assignment, the consultant will develop new geospatial features and services that align with the Organization's IT Architecture and integrate with the corporate SOA platform.

Expected Outputs

- Development support, maintenance of Google Earth Engine algorithms and related solutions
- Development and support of the Water Productivity Portal and automated data pipeline services
- Design, development and testing of geospatial data services and APIs
- Design, development and testing of geospatial self-service features
- Timesheet submission completed as requested.

CANDIDATES WILL BE ASSESSED AGAINST THE FOLLOWING

Minimum Requirements

- Advanced University degree in Computer Sciences, Information Technology or a closely related subject.
- 10 years hands on experience developing GIS using Java, Python and OGC compliant tools, of which, 5 years developing, testing and deploying SOAP and REST solutions and 1+ year developing Google Earth Engine based applications
- Working knowledge of English, French or Spanish and limited knowledge of one of the other two or Arabic, Chinese, Russian

Required technical knowledge, skills and experience:

- GeoServer, GeoNetwork, GeoNode, GeoExt
- ArcGIS, QGIS
- Google Earth Engine
- Python, JavaScript, Java, Servlets, Spring, Junit
- SQL, Oracle, MySQL, Microsoft SQL Server and PostgreSQL RDBMS technologies
- Communicate technical matters to non-technical individuals.
- Write policy, guidelines and clear technical documentation

Desirable technical skills and experience

- Machine learning
- Big data tools
- Service oriented architecture

Competencies
- Client-oriented approach;
- Ability to get things done;
- Ability to manage own time and work effectively individually and as part of team
- Working knowledge of English;

FAO Core Competencies
- Results Focus
- Teamwork
- Communication
- Building Effective Relationships
- Knowledge Sharing and Continuous Improvement

Selection Criteria

- Extent and relevance of work experience in geospatial information systems
- Extent and relevance of work experience in python and Google Earth Engine
- Able to operate effectively in a team, contributing positively to team operations and working relationships
- Sound oral and written communication skills
- Interview will be carried out to further evaluate the candidates.

Please note that all candidates should adhere to *FAO Values of Commitment to FAO, Respect for All and Integrity and Transparency.*

ADDITIONAL INFORMATION
- All applications will be reviewed and qualified applicants will be contacted for interviews.
- FAO seeks gender, geographical and linguistic diversity in its staff and international consultants in order to best serve FAO Members in all regions.
- Payment conditions: The daily honorarium will be paid monthly on when-actually-employed basis and will be defined depending on relevant qualifications and work experience up to within a range from 150 USD to 280 USD.
- FAO does not charge a fee at any stage of the recruitment process (application, interview meeting, processing).
- Incomplete applications will not be considered. If you need help, or have queries, please contact: iRecruitment@fao.org
- Applications received after the closing date will not be accepted.
- Only language proficiency certificates from UN accredited external providers and/or FAO language official examinations (LPE, ILE, LRT) will be accepted as proof of the level of knowledge of languages indicated in the online applications.
- For other issues, visit the FAO employment website: http://www.fao.org/employment/home/en/

HOW TO APPLY

To apply, visit the iRecruitment website at http://www.fao.org/employment/irecruitment-access/en/ and complete your online profile. Only applications received through iRecruitment will be considered.

Candidates are requested to attach a letter of motivation to the online profile.

Vacancies will be removed from iRecruitment at 23:59 Central European Time (CET) on the deadline for applications date. We encourage applicants to submit the application well before the deadline date.

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

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