



## CALL FOR EXPRESSION OF INTEREST

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### Recruitment of an individual consultant Web Developer for CORAF Digitalization Initiative (iCORAF)

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Opening date: April 21, 2022

Closing date: May 4, 2022

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**CEI No. 09-2022**

#### Background

CORAF is an international non-profit association of National Agricultural Research Systems (NARS) from 23 countries, covering over forty percent of the African population, making it the largest sub-regional research organization on the African continent. It was established in 1987.

Digital technologies—including the Internet, mobile technologies and devices, data analytics, artificial intelligence, digitally-delivered services and apps—are changing agriculture and the food system. Examples abound at different stages of the agri-food value chain: farm machinery automation allows fine-tuning of inputs and reduces demand for manual labour; remote satellite data and in-situ sensors improve the accuracy and reduce the cost of monitoring crop growth and quality of land or water; and traceability technologies and digital logistics services offer the potential to streamline agri-food supply chains, while also providing trusted information for consumers.

In that aspect CORAF which is the West African leader in agricultural research and funding seeks to implement a new digitalization initiative, iCORAF, of its services and platforms. That initiative will require changing, upgrading, and improving its technological tools, platforms, and public-facing outlets.

CORAF is therefore seeking an experienced Web Developer to help upgrade his web architecture platforms and implement its new digital strategy.

The tasks to be performed as well as other information relating to the consultancy are detailed in the attached terms of reference.

The Executive Director of CORAF invites candidates with the required qualifications as indicated in the terms of reference to express their interest in this call for expressions of interest.

Interested candidates must submit their applications indicating that they meet the requirements for the position: references concerning the execution of similar contracts, CV, experiences in a similar field, etc.).

The selection will be made based on the rules contained in the manual of administrative, financial, and accounting procedures of CORAF.

Interested candidates can obtain additional information from the CORAF's Executive Secretariat via [a.diouf@coraf.org](mailto:a.diouf@coraf.org).

Expressions of interest should be submitted by email to the following e-mail address: [procurement@coraf.org](mailto:procurement@coraf.org) no later than **May 4, 2022 at 17:00 GMT**.

**Dr Abdou TENKOUANO**  
**Executive Director**

## Terms of Reference

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### **Recruitment of an individual consultant Web Developer for CORAF Digitalization Initiative (iCORAF)**

#### **A. Context**

Digital technologies—including the Internet, mobile technologies and devices, data analytics, artificial intelligence, digitally-delivered services and apps—are changing agriculture and the food system. Examples abound at different stages of the agri-food value chain: farm machinery automation allows fine-tuning of inputs and reduces demand for manual labour; remote satellite data and in-situ sensors improve the accuracy and reduce the cost of monitoring crop growth and quality of land or water; and traceability technologies and digital logistics services offer the potential to streamline agri-food supply chains, while also providing trusted information for consumers.

Digital technologies can also help governments improve the efficiency and effectiveness of existing policies and programmes, and to design better ones. For instance, freely available and high-quality satellite imagery dramatically reduces the cost of monitoring many agricultural activities. This could allow governments to move towards more targeted policies which pay (or penalise) farmers based on observed environmental outcomes. In addition to monitoring compliance with environmental policies, digital technologies enable automation of administrative processes for agriculture and the development of expanded government services, such as in relation to extension or advisory services.

Finally, digital technologies can support trade in agriculture and food products, by connecting private sector suppliers to new markets, and enabling new ways for governments to monitor and ensure compliance with standards and to provide faster and more efficient border procedures that are essential for perishable products.

In that aspect CORAF which is the West African leader in agricultural research and funding seeks to implement a new digitalization initiative, iCORAF, of its services and platforms. That initiative will require changing, upgrading, and improving its technological tools, platforms, and public-facing outlets.

CORAF is therefore seeking an experienced Web Developer to help upgrade his web architecture platforms and implement its new digital strategy.

#### **Duties and responsibilities**

As a Web Developer at CORAF you will have the opportunity to work in a fast small dynamic team. You will have your hands on many projects with plenty of autonomy. You serve as the primary website development resource for the projects, improve overall site accessibility and to complete the backlog of site issues/dev requests post-launch.

#### **What you'll do:**

- Help in setting up CORAF newest web architecture (backend and frontend)
- Work on delivering CORAF new website

- Work on existing websites and the production of web page layout templates, design elements, and site optimizations, including SEO
- Work on content integration with Siteleaf and other
- Work on developing web API
- Fix browser compatibility issues
- Create and implement a cookie consent banner
- Own the migration of CORAF subdomains
- Produce new pages at request
- Produce new integration scripts at request
- Any other duties assigned by the ICT Manager

## **Qualifications**

### **Education**

- M.Sc. in Computer Science with specialization in Web Development OR
- B.Sc. in Computer Science plus professional certifications related to web development and relevant experience

### **Experience**

- 5+ plus years of relevant web development experience
- Excellent programming skills and in-depth knowledge of modern frameworks,
- Knowledge of at least one of Golang (preferred), Node.js, Python, Rust, or Java
- Experience with HTML, Markdown, CSS, YAML, and Ruby on Rails
- Excellent with Python
- Experience with JavaScript, node and gulp
- Experience utilizing Siteleaf and Jekyll
- Experience optimizing for Liquid Layout Rules
- Experience with Netlify

### **Other**

- Experience with Docker and other container management systems
- Experience optimizing web pages for search engines
- Experience utilizing Git , Gitlab and other version control systems
- Experience with open source server application software like NGINX

**Languages**

Fluent in French and English.

**APPLICATION PROCESS**

Consultants interested in this call must submit an Expression of Interest (EoI) and a detailed CV to [procurement@coraf.org](mailto:procurement@coraf.org) highlighting their suitability based on the above criteria, no later than **May 4, 2022 at 17:00 GMT**.