



AFRICAN CONSERVATION TILLAGE NETWORK

Terms of reference

Consultancy for e- Platform and application developer

1.0 Introduction

The African Conservation Tillage Network (ACT) is a pan-African membership organization bringing together stakeholders and players interested and committed to enhancing the development and adoption of Conservation Agriculture (CA) in Africa through sharing knowledge and information.

ACT's mandate is driven by the conviction that widespread adoption of conservation agriculture will contribute significantly to the attainment of both agricultural and environmental objectives-empowering farmers and rural communities to manage their resources, sustaining the resilience at the same time achieving viable production systems. In this way, ACT aims to contribute to placing at the disposal development partners and governments farming practices that will not only bring agriculture back in the driving seat for economic and rural development, but also address the immediate concerns of food insecurity and poverty. To learn more about ACT, please visit our website at www.act-africa.org

2.0 The purpose

The main objective of this consultancy is to develop:

- a) **A web and mobile based e- platform** that supports knowledge management (*dissemination and query*) as well as a Monitoring & Evaluation function. The consultant will:
 - Develop the e- platform that provides a User Interface (UI) that will give a comprehensive screenshot of the various activities in a given country and link all related documents, reports, project tools, photos, videos and any other resources to their respective activities.
 - Create a data capture process that will allow collection, collation and aggregation of data. Integrating the different CA data bases (Q & A, KM and M & E)
 - Develop a reporting system that will allow reports from field officers to be collated, filtered, searched, customized and exported to appropriate file formats for analysis, printing and/or archiving.
 - Train ACT staff in the use and maintenance of the platform
 - Provide after service support for an agreed period

- b) **CA application available for mobile and web download**

3.0 Deliverables and timeframe

Under direct supervision of the Knowledge & Information Management Manager, the consultant will be expected to deliver the following by 30th September 2015:

- A fully functional e- platform with a centralized databases (CA information, farmers, suppliers, and other key stakeholders with key name, gender, commodity, location, occupation and phone number details)
- A web-based mobile Monitoring and Evaluation system imbedded within the e- platform
- CA application available for web and mobile download
- A user and training manual
- Trained and support staff in the use of the platform
- Remote support on deployment of platform

4.0 Competencies

The ideal candidate should have:

- Demonstrated experience in the following: content management systems; language, libraries such as PHP , Backbone, Django framework, Javascript, JQuery, MVC Frameworks, or Restful API Design
- Highly experienced in USSD & SMS development
- Experience in mobile-based application development (Android) and data collection tools such as Open Data Kit
- Demonstrated hands on programming experience combined with cross-functional collaboration skills.
- Demonstrated experience in SMS gateway development, integration (via API) and support.
- Have published at least one original Android app
- Experience in Geographic Information systems and mapping
- Experience working with remote data via REST and JSON
- Experience with third-party libraries and APIs
- Working knowledge of the general mobile landscape, architectures, trends, and emerging technologies
- Solid understanding of the full mobile development life cycle'
- Good written and spoken English and fluent in Kiswahili.

5.0 Qualification

A Bachelor's degree in Computer Science, Information Technology, Informatics, Engineering, or related field is required and a minimum of 5 years' experience in software development. A Master's degree will be an added advantage. A current CV of the applicant should be attached.

6.0 Evaluation criteria

The Proposal for this contract will be evaluated according to the following criteria:

- Completeness in complying with all elements laid out in the assignment
- Consultant's capacity, past performance and relevant services undertaken
- Years of experience in delivering similar contracts
- Strong familiarity with scope of work
- Quality of technical proposal
- Methodological approach
- Work plan
- Budget

7.0 Clarifications

Any questions or clarifications should be only via email address: hr@act-africa.org received by **10th August 2015**.

8.0 Application procedure:

To apply for this consultancy, the consultant should submit the following:

- A technical and financial proposal for undertaking the assignment.
- Current Curriculum Vitae/ resume of the consultant who will undertake the task
- Firm profile, registration and other relevant statutory documents (if a company)
- Submit three reference letters from past clients/employers

All interested consultants or consultancy companies are asked to submit their proposals by close of business **14th August 2015 at 1700 Hours EAT** to the Executive Secretary, ACT, and email address: hr@act-africa.org

ACT is an equal opportunity employer and believes that diversity promotes excellence in its operations. Only the short listed candidates will be contacted. ACT reserves the right to determine the structure of the tender process without prior notice and liability to compensate any party.