**FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS**  
Terms of Reference for Consultant Category C  
Deadline for applications: 14th March (5pm Rome time)

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Research Associate: Adoption of agricultural technologies in Africa</th>
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<tbody>
<tr>
<td>Division/ Department:</td>
<td>AGDSD</td>
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<tr>
<td>Programme/ Project Number:</td>
<td>SIAC program</td>
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<tr>
<td>Duty Station:</td>
<td>Tanzania</td>
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<tr>
<td>Expected Start Date of Assignment:</td>
<td>1 May 2017 (preferred)</td>
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<tr>
<td>Duration:</td>
<td>8 months (renewable subject to performance and availability of funds)</td>
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<tr>
<td>Reports to: Name:</td>
<td>Dr. James Stevenson</td>
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<tr>
<td>Title:</td>
<td>Agricultural Research Officer</td>
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**GENERAL DESCRIPTION OF TASK(S) AND OBJECTIVES TO BE ACHIEVED**

The CGIAR Standing Panel on Impact Assessment (SPIA) is recruiting a research associate to be based in Tanzania (hosted by a research Center of the CGIAR). One of SPIA's mandate is to assess the adoption and impact of agricultural technologies developed by the CGIAR Centers and Research Programs. The LSMS-ISA is a World Bank program that collects nationally-representative panel datasets on agriculture in 8 Sub-Saharan African (SSA) countries.

This exciting Research Associate consultancy is being created initially until the end of 2017 with the aim of improving the data collected in the LSMS-ISA panel regarding agricultural technologies in Tanzania. Similar consultancies are currently ongoing in Ethiopia and Uganda. Under the supervision of SPIA (based at the ISPC Secretariat at FAO, Rome) and the Manager of the LSMS-ISA team (based at the World Bank offices in Rome) the Research Associate is expected to work independently to link the agricultural researchers in the CGIAR system with the economists and statisticians in the LSMS-ISA program and national statistical agencies in designing, testing and integrating specific protocols for uniquely identifying agricultural technologies as part of the LSMS-ISA household survey visits. These data subsequently become freely available global public goods, though there is scope within these terms of reference for analytical work using the data to understand the adoption of agricultural technologies and its impact on various outcomes of interest (e.g. productivity, poverty, nutrition). More information on on-going SPIA and LSMS-ISA collaboration can be found here.

Description of main responsibilities:
- Liaise with SPIA staff, senior management, and lead scientists from CGIAR Centers in Africa to identify technologies for specific LSMS-ISA countries for which better data of extent of adoption is needed;
- Work with groups of CGIAR agricultural scientists (crop breeders, agronomists, water engineers etc.) as well as with the colleagues in Ethiopia and Uganda in determining how specific selected technologies might be uniquely identified;
- Work closely with the LSMS-ISA team and their local counterparts, and develop and field-test protocols for these specific technologies in Tanzania. Field-testing will be carried out either in parallel or piggyback on LSMS-ISA survey operations;
- Following the methodological testing, together with the LSMS-ISA team and local counterparts, identify specific survey rounds in Tanzania where it is possible to introduce protocols for improved data collection.

**KEY PERFORMANCE INDICATORS**

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<th>Expected Outputs:</th>
<th>Required Completion Date:</th>
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<tr>
<td>1) Consult with SPIA, review the literature and discuss with scientists at relevant CGIAR Centers to devise a list of the most relevant agricultural technologies which need better data collection protocols in Tanzania</td>
<td>End May 2017</td>
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<td>2) Work with CGIAR researchers to devise protocols that can be incorporated in the LSMS-ISA survey format</td>
<td>End Jul 2017</td>
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3) Consult with the national statistical agency and LSMS-ISA colleagues to facilitate the introduction of the new data collection protocols

End Aug 2017

4) Implement testing of a range of protocols

Sep – Dec 2017

5) Write technical report (30 pp + annex) on the protocol development, testing and integration process.

Dec 2017

6) Carry out econometric analysis on research questions related to the adoption and impact of agricultural technologies based on the datasets generated, in collaboration with economists in CGIAR centers and LSMS-ISA / SPIA colleagues. Publish research papers.

Ad-hoc, when possible

REQUIRED COMPETENCIES

- Able to work independently, solve problems, network effectively, good inter-personal and communication skills
- Strong analytical skills in agricultural economics / econometrics, preferably with experience of application to panel datasets in STATA
- PhD or Masters (or equivalent) in a relevant subject
- At least 2 years of work experience on projects related to survey design and supervising data collection
- Knowledge of (and preferably experience of working on) African agricultural technologies / farming systems
- Must be willing to travel widely within Sub-Saharan Africa
- Excellent English

HOW TO APPLY

Interested applicants should send their CV and cover letter via email to ISPC-Secretariat@fao.org, with the subject line “VACANCY: SPIA Research Associate”, no later than 5pm (Rome time) on Tuesday, 14th March 2017.

The duration of the consultancy is until 31 December 2017 and may be extended subject to availability of resources and review of incumbent performance.

The Research Associate will be located in Tanzania and will be under contract with FAO assigned to work on CGIAR affairs.