



Please email [Mireille.Ngokion@crs.org](mailto:Mireille.Ngokion@crs.org) to express interested in this assignment.

**Farmer to Farmer Benin  
Volunteer Assignment Scope of Work**

| Summary Information               |  |
|-----------------------------------|--|
| Assignment Code                   | BJ236  |
| Country                           | Benin (but the assignment will be in Togo)   |
| Country Project                   | Flexi  |
| Host Organization                 | Forge Sans Frontière (FSF)   |
| Type of Volunteer Assistance      | T  |
| Type of Value Chain Activity      | P  |
| Assignment Title                  | Training on Stainless steel welding techniques for Forge Sans Frontière  |
| Assignment preferred dates        | February-March 2020  |
| Objectives of the assignment      | <ul style="list-style-type: none"> <li>• Train the FSF members on stainless steel welding techniques,</li> <li>• Coach the FSF members on stainless steel welding tools usage and manipulation,</li> <li>• Train the FSF members on the stainless-steel welding in agro-food processing machines' making.</li> </ul> |
| Desired volunteer skill/expertise | <ul style="list-style-type: none"> <li>• Expert in stainless steel welding</li> <li>• Relevant experiences in stainless steel usage for agro-food processing machines' making</li> <li>• Be used to adult people training</li> <li>• Be familiar to participatory approach</li> </ul>                                |

**A. BACKGROUND**

Forge Sans Frontière (Forge without border) is a unit of production of agricultural equipment and agro-food processing installed in Togo since 2008. Its creation was mainly supported by the desire to propose

equipment and machines of satisfactory quality, answering the need of the populations which are often obliged to purchase agricultural equipment from abroad. Its activities cover the entire territory and its presence with agricultural producers is no longer to prove. As a result, it has often been solicited by the Ministry of Development at the Base, craft, Youth and Youth Employment to offer good quality materials and follow-up support to the groups targeted by the actions of this Ministry.

FSF's vision is to be in 2020, an important training and production center for agricultural equipment and agri-food processing of international renown.

The unit is led by a team of three people headed by a Director. The production team is headed by a Production Manager assisted in his tasks by a foreman and who has under his command some well qualified workers according to production needs. In order to expand its activities, FSF is now collaborating with CODEART, a Belgian NGO that provides the technical support needed to continuously improve the quality of the manufactured products.

FSF works in the following areas:

- Harnessed culture: plow, harrow, hoe triangle
- Cassava processing: Cassava rapper, gari press
- Maize processing: gin, mill, grinder-mixer
- Oil production: de-stalker, nut cooker, palm oil press, clarifier, shredder, nut crusher, palm oil press, bell filter
- Multifunctional platform
- Rice production: tiller, rice thresher, rice husker
- Peanut and soy processing: peanut huller, roaster, cooler. soybean oil press.
- Pineapple processing: pineapple juice, dried pineapple
- Transportation: Carriage, rickshaw, cart, trailer, tank
- Drying: Solar shell dryer, MAXICOQ dryer (solar gas) ....
- Construction: wheelbarrow for construction site, ironwork, metal frame, shovel bar.
- Rearing and market gardening: roasting, barbed wire, watering can, hoe, grinder-mixer, trough, fin, brooder
- Hydraulic: Bucket pump, village hydraulic pump, nozzle mold.

FSF also provides training and technology transfer.

FSF has specialized technicians in mechanics, electricity, welding, hot and cold forging, painting, milling and turning.

They have the equipment and tools that facilitate the production of their machines.

## **B. ISSUE DESCRIPTION**

As stated above, Forge Sans Frontière is an agricultural equipment and materials manufacturing unit that is providing many and diverse agricultural machines and tools to enable production and processing activities for farmers and processors in Togo. Their responsible with the support of Germany Technical Cooperation (GIZ) are promoting young people who dropped out school training and good quality equipment making and supplying to the farmers and the agro-food processors. Nowadays, they are more

and more engaged in agro-food processing equipment and machines making, mostly for juices, yogurt, milk, flour etc. production. But a good quality of agro-food processing machines needs the welding of a stainless-steel material inside the machines to replace the iron material they are using so far, mostly the part that is in touch with the food in processing. But they lack knowledge on the techniques and technologies of stainless steel material welding. In addition, they don't know the required tools and materials to weld stainless steel materials. At the same time, many people are setting up their business in agro-food processing and they need to export their products. But the norms to be followed require stainless steel processing machines and their demand is going increasingly in the country and remains unsatisfied.

### **C. OBJECTIVES OF THE ASSIGNMENT**

The main objective of this assignment is to train the Forge sans Frontière members on the stainless-steel materials welding. The assignment will intend specially to:

- Train the FSF members on stainless steel welding techniques,
- Coach the FSF members on stainless steel welding tools usage and manipulation,
- Train the FSF members on the stainless-steel welding in agro-food processing machines' making

### **D. HOST CONTRIBUTION**

The contribution of Forge Sans Frontière to this assignment will consist of mobilizing, supporting the commuting, the lodging and the feeding fees of the participants to the training sessions. In addition, they promise to take in charge the volunteer's roundtrip from and to his hotel everyday.

### **E. ANTICIPATED RESULTS FROM THE ASSIGNMENT**

Through the volunteer's technical assistance, the Forge Sans Frontière members and many other welders in Togo will master the stainless-steel materials welding. The agro-food processing machines' demand will be well satisfied and help the welders to gain enough money. In addition, the agro-food processing machines will be some good quality ones that will help many processors to export their production.

### **F. DELIVERABLES**

The deliverables expected from this assignment are the follows:

- The training of 20 FSF members on stainless steel welding techniques is done,

- The Coaching of 20 FSF members on stainless steel welding tools usage and manipulation is done,
- The training of 20 FSF members on the stainless-steel welding in agro-food processing machines' making is done,
- Debriefing with USAID and country staff after assignment
- Provide assignment report

#### G. SCHEDULE OF VOLUNTEER ACTIVITIES IN COUNTRY (DRAFT)

| Day         | Activity  |
|-------------|---|
| Day 1       | Travel from home to US international airport  |
| Day 2       | Arrival at Benin International Airport, picked up and check in at Livingstone Hotel or Nobila Airport Hotel.  |
| Day 3       | At 9.00 am, the volunteer will come to CRS office for introductions and orientations (briefings including host brief), logistics and expectations and anticipated outcomes. Any necessary hand-outs will be prepared at CRS offices and Travel to Togo and check in El doria Hotel. CRS Benin F2F team introduces the volunteer to the FSF responsible as well as to the GIZ staff and the chief of police and to Mayor of the district. The volunteer will review and finalize the work-plan and discuss with them on any other arrangement for the work |
| Day 4       | Make a quick diagnosis to better understand the issues related to FSF's activities  |
| Days 5-6    | Train the FSF members on stainless steel welding techniques   |
| Day 7-8     | Coach the FSF members on stainless steel welding tools usage and manipulation   |
| Day 9-10-11 | Train the FSF members on the stainless-steel welding in agro-food processing machines' making   |
| Day 12      | Wrap up meeting and debriefing with FSF and GIZ representatives, CRS Benin F2F staff, actions plan and recommendations review   |
| Day 13      | Travel Back to Cotonou  |
| Day 14      | Debriefing at CRS office with USAID Mission and CRS staff.<br>Volunteer will finalize his/her reporting at CRS office and fill out all necessary M&E forms.   |

|        |                |
|--------|----------------|
| Day 15 | Depart for USA |
|--------|----------------|

#### **H. DESIRABLE VOLUNTEERS SKILLS**

As described above, the volunteer we are looking for this assignment must be expert in stainless steel welding. Especially, he or she must be:

- Expert in stainless steel welding
- Relevant experiences in stainless steel usage for agro-food processing machines' making
- Be used to adult people training
- Be familiar to participatory approach

#### **I. ACCOMMODATION AND OTHER IN-COUNTRY LOGISTICS**

In Cotonou, the volunteer will stay at Livingstone Hotel or Nobilla Airport Hotel, whereas in Togo, the volunteer will stay in El Doria Hotel. In Benin, CRS will pay for hotel accommodation. In addition, a local network SIM card will be provided to the volunteer as well as a spare computer if needed at his or her arrival in Cotonou. In Togo, FSF will contribute to the volunteer's commuting as well as mobilizing and supporting its staff for the required sessions. The FSF Responsible will work closely with the volunteer during the preparations and his/her work, to ensure that the assignment goals are being achieved.

#### **J. RECOMMENDED ASSIGNMENT PREPARATIONS**

##### **1. Training Materials**

The volunteer should prepare the requires materials and tools for stainless steel welding before his arrival as well as materials for hand out which can be printed at CRS office in Benin. Flip charts, markers, masking tapes and projector can be obtained at the CRS offices in case the volunteer wishes to make some illustrations during the sessions.

##### **2. Working Environment**

The FSF is located in Lomé, the capital of the Togo Republic which is at about 150 km from Cotonou. People there are Christian (70%) and Muslim (30%), but all of them are well involved in endogenous religion. People there speak mostly Mina and Ewe. Also, in Lomé, people are open to collaborate with foreigners.

##### **3. Recommended Reading**

The volunteer may read some documents on food processing machines making in Africa. Any other documents related to this assignment can be useful for the volunteer’s preparation.

**4. Weather Appropriate Clothing**

The weather appropriate clothing is light and not dark clothes. In the south of Togo, the weather is a bit hot and humid with some temperatures varying between 23 to 36 Celsius degree. It is also a sunny weather with some rains fall from June.

**K. KEY CONTACTS**

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