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FARMER-TO-FARMER
The USAID John Ogonowski and Doug Bereuter Farmer-to-Farmer Program

**FARMER-TO-FARMER
VOLUNTEER ASSIGNMENT FORM**

| Summary Information | |
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| Assignment Code | TT69 |
| Country | Trinidad & Tobago |
| Assignment Title | Micro-Irrigation Techniques |
| Best dates for volunteer visit | After January 2023 |
| Host Organization(s) | MIC Institute of Technology (formerly Metal Industries Company Limited is an agency of the Ministry of Education established in 1974 as a joint venture of the Government of Trinidad and Tobago, the United Nations Development Programme / United Nations Industrial Development Organization (UNDP/UNIDO) and a number of private local industries. Having provided manufacturing support to customers through the design and production of high-quality tools, molds, precision machining and Manufacturing Engineering, MIC Institute of Technology has rebranded as a unique entity, operating as both a commercial factory and training institution. The MIC Training Programme follows the German Dual System of Technical Vocational Training and uses the Factory Training Concept where foundation theoretical and practical skills are developed in MIC Institute of Technology and mastery of these skills are developed in the industry under guided supervision of a skilled Supervisor or Master Craftsman. In 2016 MIC-IT started a Crop Production pilot programme which was approved in 2017 and is now being offered under its MuST programme. The MuST Programme offers trainees the opportunity to be exposed to various occupational and employability skills training within the priority sectors. The trainees are exposed to the real world of work and life skills training while at the same time learning a technical skill to gain sustainable employment. |
| Assignment Information | |
| Objectives and Anticipated Results | In view of the limited availability of labour and water for agriculture and the debilitating effects of climate change on agriculture, many primary producers have been exploring micro-irrigation as a system to increase yields and decrease water, fertilizer, and labour requirements. In this regard, MIC would like to provide training for participants and staff in micro-irrigation which is a viable option for a low pressure, low volume irrigation system suitable for high-return value crops such as fruit and vegetable crops. The Institute is prepared to teach their staff and students these techniques as they see these skills as complimentary to their technological curriculum. Therefore, in response to this need, a volunteer is requested to provide staff and participant training in: |



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| | <ul style="list-style-type: none"> • Introduction to micro-irrigation- design, management and maintenance • Development of small micro-irrigation system <p>During the training, the MIC team would like to develop a small micro-irrigation system for a vegetable plot as output from the training. Through this training, MIC staff and participants will be able to design, develop and maintain a small micro-irrigation system for a vegetable plot in order to produce food amidst the challenges of limited labour and water resources.</p> |
| Expected Deliverables | <ul style="list-style-type: none"> • Hands-on experience – planning and building a micro-irrigation system for vegetable crops • Provide materials to members for all subjects • Debriefing with country staff and Purdue after assignment • F2F Assignment Report and F2F Recommendations Form to be completed at the end of the assignment (completed for debriefing with staff) • Sign-in sheets for training sessions (work with Field Coordinator) • One outreach activity (news article, interview, presentation, etc.) about your F2F activity. • If applicable, “like” the Purdue F2F Facebook and Twitter pages and share your experience. |
| Desired volunteer skill/expertise | <ul style="list-style-type: none"> • 5 years of experience using irrigation systems • Experience training adults in low-income communities • Experience working in a developing country preferred • Flexibility • Language: Proficient in English |
| Training Participants | About 15 staff and participants MIC Institute of Technology |
| Resources to be Contributed by Hosts and Local Partners | <ul style="list-style-type: none"> • Provide in-country transportation, office space for meetings, and facilities for training and/or workshops; and • Provide supplies, equipment, and other resources for training activities. • Access to computer, projector, and screen |
| <i>Farmer to Farmer Objective(s)</i> | <input checked="" type="checkbox"/> Increase agricultural sector productivity and profitability <input checked="" type="checkbox"/> Improve conservation and sustainable use of environmental and natural resources <input type="checkbox"/> Expand agricultural sector access to financial services <input type="checkbox"/> Strengthen agricultural sector institutions |
| <i>Type of Volunteer Assistance</i> | <input checked="" type="checkbox"/> Technology Transfer <input type="checkbox"/> Organizational Development <input type="checkbox"/> Business/Enterprise Development <input type="checkbox"/> Financial Services <input type="checkbox"/> Environmental Conservation <input type="checkbox"/> Administrative |



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| <i>Type of Value Chain Activity</i> | <input checked="" type="checkbox"/> Information and Input Support Services (extension services, input supplies, veterinary services, etc.) <input type="checkbox"/> On-Farm Production <input type="checkbox"/> Processing (primary and final product transformation, storage, transportation, etc.) <input type="checkbox"/> Marketing (branding, advertising, promotion, distribution, sales, etc.) |
| <i>PERSUAP – Volunteer Assignment Type</i> | <input type="checkbox"/> Type 1 Volunteers provide direct assistance for the use or procurement of pesticides and are likely to recommend and/or provide advice on specific pesticide active ingredients or products. <input type="checkbox"/> Type 2 Volunteers provide indirect assistance for the use or procurement of pesticides; they are not expected to recommend or provide advice on specific pesticide active ingredients or products. <input checked="" type="checkbox"/> Type 3 Volunteers are not expected to be involved in pesticide issues. <input type="checkbox"/> Type 4 Volunteers work on a separately-funded USAID project/activity which may have a PERSUAP governing its operations related to the use and procurement of pesticides. |
| Volunteer Information | |
| Recommended Preparation | <ul style="list-style-type: none"> • Please thoroughly read and follow the instructions provided in the volunteer orientation packet. • Let field staff know if you need assistance or accommodations. |

| Project Overview |
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| <p>Trinidad and Tobago is a two-island country of a diverse population with rich history and culture. As an island nation, it is under the constant mercy of changing climate that is affecting natural resources and agriculture. At present, it is a net food importing country forcing the government to refocus its attention on sustainable agriculture as a part of its 2030 country development strategy. The tropical climate and available natural resources, if used properly, can make the country self-sufficient in vegetables, root crops and some fruits with a provision to export value added products. It is an opportune time for F2F volunteers to engage with agriculture extension officers and farmers to impart knowledge and learn about the culture and endurance of Trinbagonians. The objective of the F2F Trinidad and Tobago Country Program is to improve food and nutrition security through productivity, safety, and profitability as well as strengthening the extension service through capacity building.</p> |