

REQUEST FOR EXPRESSIONS OF INTEREST
CONSULTING SERVICES

Institution: The University of the West Indies, Mona

Country: Regional

Project: Investment Plan for the Caribbean Regional Track of the Pilot Program for Climate Resilience

Sector: Health Applied Adaptation Initiatives

Abstract: Perform a Risk Assessment Model for climate variability and vector-borne diseases, which will be used to develop an early warning surveillance system integrating climate variability and vector-borne diseases for Haiti, Jamaica and St Lucia.

Loan/Credit/Grant No.: ATN/SX-14696-RG

Contract/Bid No.: CF12/C4.01-3

Deadline: 7 August 2019

The University of the West Indies, Mona has received financing from the Inter-American Development Bank (IDB), toward the cost of the Investment Plan for the Caribbean Regional Track of the Pilot Program for Climate Resilience, and intends to apply part of the proceeds for consulting services.

The consulting services ("the Services") include:

1. Liaise with the Ministry of Health and other relevant stakeholders in each country to determine quantity and quality of information available to perform the works listed below.
2. Design and develop a database for a minimum of 10 years' worth of climatic data at a pre-determined entomological scale, for each of the 3 pilot countries (Haiti, Jamaica and St. Lucia).
3. Design and develop a database for corresponding 10 years' worth of available entomological indices (e.g. Ovitrap, House, Container, and Breteau) for each of the 3 pilot countries (Haiti, Jamaica and St. Lucia).
4. Design and develop a database for corresponding 10 years' worth of available epidemiological data for each of the 3 pilot countries (Haiti, Jamaica and St. Lucia) at both the country-level as well as predetermined country-specific subdivisions.
5. Perform data cleaning of the climatic data, entomological indices and epidemiological databases.
6. Develop spatial-temporal model(s) that accurately captures the relationships among climatic data, entomological indices and epidemiological data.
7. Validate the spatial-temporal model(s) ability to assess the risk of vector-borne disease outbreaks specifically dengue, chikungunya, and zika for each country.
8. Produce vector-borne disease-related (dengue/chikungunya/zika) GIS vulnerability maps for each of the three (3) PPCR pilot countries identified.
9. Determine the level of risk of vector-borne disease outbreaks (dengue/chikungunya/zika) given the current climatic, entomological and epidemiological data.
10. Assess dengue infectivity and surveillance and control systems for each of the three (3) PPCR countries identified.
11. Develop a stakeholder approved action plan for the (3) PPCR highlighted countries outlining an integrated climate sensitive, vector-borne disease surveillance and control system.
12. Develop an Early Warning System to predict vector-borne-disease outbreaks and inform prevention and control measures in the (3) PPCR countries specified.
13. Develop, and carry out training workshops for stakeholders in (3) PPCR countries on usage of the developed surveillance system
14. Implement an integrated climate surveillance system, which is incorporated into routine health surveillance reporting and action in (3) PPCR countries.

The risk assessment will be used to develop statistical models that capture the relationship between climatic variability and its influence on vector-borne diseases in three pilot countries (Haiti, Jamaica and Saint Lucia). The risk assessment models are expected to improve the information base and its usage for establishing early warning systems, which integrates climate variability and vector-borne diseases in Haiti, Jamaica, and Saint Lucia to improve national and regional policies, and solutions to these climate-related risks. The consultancy is expected to be delivered over 300 days beginning August 2019.

The work is expected to be carried out by a local or international firm with the Key Expert/Team Leader possessing at least a Master's Degree in Public Health, Epidemiology or Infectious Diseases and a minimum of ten (10) years' experience working in developing and implementing surveillance systems and; and Non Key Experts with Environmental Health, Geo-Informatics, Environmental Health, Climatology/Meteorological Sciences, and Biology Master's Degrees, with specialization in disease vectors and at least three years' experience in their field. Specific experience in the Caribbean region, and knowledge of French and Creole are required.

The consultant firm should have proven experience in working with a range of stakeholders, including governmental and non-governmental organizations. Knowledge of climate change issues, vector-borne diseases, namely dengue/chikungunya/zika, and show competency in designing databases, producing GIS-based health maps, and statistical modeling specific to public health phenomena is required.

The University of the West Indies, through its Mona Office for Research and Innovation, now invites eligible Local or International Firms to indicate their interest in providing the Services. Interested Firms should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services.

Short list shall comprise six consulting Firms with a wide geographic spread, with no more than two Firms from any one country.

Firms will be selected in accordance with the procedures set out in the Inter-American Development Bank: [Policies for the Selection and Contracting of Consultants financed by the Inter-American Development Bank](#) GN-2350-9 and is open to all eligible bidders as defined in the policies.

A Firm will be selected based on the Consultant's Qualification Selection (CQS) method set out in the Consultant Policies.

Further information can be obtained at the address below during office hours 9 a.m. to 4 p.m.

Expressions of interest must be delivered in a written form, **not exceeding 20 pages**, to the address below (in person, or by mail, or by e-mail) by **7 August 2019 at 2 p.m.** Jamaican time.

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