CARIBBEAN INSTITUTE FOR METEOROLOGY AND HYDROLOGY

Programme for Building Regional Climate Capacity in the Caribbean
(BRCCC Programme)

APPLICATION PROCESS

Application Deadline	1 May 2015

Applications (Cover letter, curriculum vitae, certificates and the contact information for two professional referees) should be addressed to:

David A. Farrell, Ph.D., P.G.
Principal
Caribbean Institute for Meteorology and Hydrology
Husbands
St. James
Barbados

Applications can be sent via email to hrdept@cimh.edu.bb with **BRCCC-2014 GIS Specialist** in the Subject Line

Only shortlisted candidates will be contacted for an interview.

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GIS SPECIALIST

TERMS OF REFERENCE (TOR)

1. INTRODUCTION

Climate change and increasing climate variability and their potential impacts have boosted society's demand for tailored climate products and services. The delivery of critical climate services on a sustained and timely manner to support adaptation to climate change and increasing climate variability requires:

- Advanced computational resources to support (i) research and development programmes that lead to the development and delivery of new products and services and (ii) timely delivery of existing products and services;
- Internal climate research and research collaborations with regional and international climate scientists to build competence and know-how;
- Frequent interactions with climate sensitive sectors to adequately assess demand and to gain feedback with regards to products and services delivered;
- IT expertise and infrastructure to support user interface platforms that facilitate development and delivery of information but also provide a mechanism for receiving feedbck;
- Appropriate levels of competent staff with appropriate staff development programmes to ensure that staff maintain and where appropriate develop new competencies in response to changing demands and challenges; and
- An effective administrative structure that provides the services required to facilitate the delivery of the technical programmes; and
- Adequate sources of funding to sustain and grow the technical programmes.

The Programme for Building Regional Climate Capacity in the Caribbean (BRCCC Programme) funded by the generous support of the American people through the United States Agency for International Development (USAID), executed by World Meteorological Organization and implemented by the Caribbean Institute for Meteorology and Hydrology (CIMH) aims to assist the CIMH in building its institutional capacity and infrastructure to deliver climate products and services to climate sensitive sectors in the Caribbean region as part of its long term goal to become the WMO Regional Climate Centre (RCC) for the Caribbean.

2. ABOUT THE CARIBBEAN INSTITUTE FOR METEOROLOGY AND HYDROLOGY

The CIMH is an Institution of the Caribbean Community and the technical Organ of the Caribbean Meteorological Organization. The mandate of the CIMH is to assist in improving and developing the Meteorological and Hydrological Services as well as providing the awareness of the benefits of Meteorology and Hydrology for the economic well-being of the CIMH Member States. This is achieved through training, research, investigations, and the provision of related specialized services and advice.

In achieving its mandate, the CIMH has established an affiliation with the University of the West Indies where its primary responsibility is the delivery of the B.Sc. programme in Meteorology in the Faculty of Pure and Applied Sciences. The CIMH is also recognized by the World Meteorological Organization (WMO) as:

- The WMO Regional Training Centre in the Caribbean for Meteorology and Hydrology and related disciplines.
- A Regional Instrument Centre for the Caribbean.
- Centre of Excellence in Satellite Meteorology Training;
- The WMO Regional Climate Centre for the Caribbean (in Demonstration Phase).

In addition, the CIMH is a repository for the climate data from CMO Member States. The CIMH is also an important Caribbean centre for research and development related to Meteorology, Hydrology, Agro-Meteorology and Climate in the Caribbean. The CIMH is active in such areas of hydrological risk impacts forecasting and agricultural risks forecasting. The CIMH has strong collaborations with other Regional Institutions, national organizations in CMO Member States and the international community

3. DESCRIPTION

The CIMH is seeking to recruit a **GIS Specialist** to support the development of GIS and Remote Sensing programmes being undertaken by the CIMH, particularly as they support the needs of the BRCCC programme.

4. DUTIES AND RESPONSIBILITIES

The GIS Specialist will (i) support the development of a spatio-temporal database and the appropriate procedures and protocols to guide the management of the database and (ii) support the continued development of GIS courses to support targeted training of staff from the CIMH and National Meteorological and Hydrological Services.

Specific duties include:

- Assisting in the development of GIS-based products by the Regional Climate Centre.
- Contributing to the integration of research and development in GIS and Remote Sensing in support of RCC activities including but not limited to
    - Land use management in the Caribbean.
    - Climate change and climate variability impact assessments.
    - Water resources management.
    - Disaster risk reduction
- Assisting with the GIS and Remote Sensing Programme at CIMH.
- Any other duties as assigned by management.

5. PROFESSIONAL REQUIREMENTS

The successful candidate should possess a Graduate Degree in Geographical Information Systems (GIS) or Remote Sensing with at least three (3) years of professional experience or 3 years of teaching preferably at the tertiary level. Candidates holding a graduate degree in an Earth Sciences field or Geography, with significant demonstrated experience in GIS and Remote Sensing may be considered for the position. Candidates with a B.Sc. in Geography or an Earth Sciences field, with more than 10 years demonstrated experience in GIS and/or Remote Sensing will be also be considered.

6. ADDITIONAL REQUIREMENTS

The successful candidate should be (i) performance driven, (ii) able to work independently, (iii) able to function in a highly dynamic and collaborative work environment and (iv) able to work effectively with diverse stakeholders including persons from local communities, civil society, social scientists, natural scientists and sector specialists.

It is expected that the successful candidate should be familiar with:

- Common commercial GIS and Remote Sensing packages (e.g. ArcGIS, ENVI and/or other similar products);
- Common open source software packages used in GIS and Remote Sensing (e.g. QGIS, GRASS , SAGA and/or similar products)
- Open source web map serving platforms (e.g. Geoserver, Mapserver and/or similar products)
- Design and implementation of spatial databases using open source platforms (e.g. PostgreSQL, MySQL and/or similar platforms)
- Linux, Mac OS X and MS Windows environments
- Map S

7. REMUNERATION & BENEFITS

The compensation will be commensurate with academic background and experience. The ideal candidate should be a mid-career professional. A non-contributory medical plan is being offered.

8. DURATION & EXPECTED START DATE

The position is available for **1 year**, starting preferably in **July, 2015** or as soon as possible thereafter.

9. PLACE OF WORK

The candidate is expected to reside in Barbados during the period of employment under the project. The CIMH is an equal opportunity employer.