

# CARIBBEAN INSTITUTE FOR METEOROLOGY AND HYDROLOGY



## APPLICATION PROCESS

<b>Application Deadline</b>	June 03, 2016
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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](mailto:hrdept@cimh.edu.bb) with **CIMH - Hydrogeologist** in the Subject Line

**Only shortlisted candidates will be contacted for an interview**

# CARIBBEAN INSTITUTE FOR METEOROLOGY AND HYDROLOGY



## HYDROGEOLOGIST

### TERMS OF REFERENCE (TOR)

#### 1. BACKGROUND

The Caribbean Institute for Meteorology and Hydrology (CIMH) is an Institution of the Caribbean Community (CARICOM) and the technical Organ of the Caribbean Meteorological Organization (CMO). 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, Cave Hill (UWICHILL) campus 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 addition, the CIMH is a repository for the hydro-meteorological and climate related 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 including but not limited to numerical modelling, hydrological risk impacts forecasting and early warning system development. The CIMH has strong collaborations with other Regional Institutions, national organizations in CMO Member States and the international community.

The CIMH is seeking to recruit a Hydrogeologist to support the hydrological, weather and climatological research, development and training activities of the Institute.

## **2. DUTIES AND RESPONSIBILITIES**

The successful candidate will work in a team conducting multi-disciplinary training, research and development to support (i) climate variability and change studies to guide regional and national adaptation practices, (ii) the development and implementation of strategies to support disaster risk reduction across a range of spatial and temporal scales relevant to the Caribbean and (iii) water resources management utilizing such concepts as integrated water resources management. In addition, the successful candidate will be required to sit on national, regional and international committees and to conduct regional and international travel.

Specific duties include:

- The improvement and expansion of the hydrology training programme
- Field work to further enhance the collection of hydrogeological data
- The development of physically-based conceptual ground water models for application
- The preparation of project proposals and project implementation

## **3. PROFESSIONAL REQUIREMENTS**

The successful candidate should possess a Graduate Degree specializing in either hydrogeology, civil engineering, hydrology or water resources management with at least three (3) years of professional experience in either industry or academia. Candidates with a B.Sc. degree in related disciplines with more than ten (10) years demonstrated experience in hydrogeological applications and water resources management will also be considered. The successful candidate should have either a proven track record of publications in recognized peer reviewed journals or the demonstrated ability to attract project funding.

## **4. 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 open source/commercial hydrogeological modeling codes (e.g. ModFlow, FEFLOW and HydroGeoSphere)
- Common open source/commercial software packages used in Geographic Information Systems (e.g. QGIS, ArcGIS)
- Microsoft Office Suite or similar
- Linux, Mac OS X and MS Windows environments

## **5. REMUNERATION & BENEFITS**

The appointment will be at either the Assistant Lecturer or Lecturer scale of the University of the West Indies Cave Hill Campus, Barbados depending on the academic background and experience of the successful candidate. The ideal candidate should be a mid-career professional. However, candidates in the early stages of their professional careers will be considered.

**6. START DATE**

It is expected that the selected candidate will commence duties September 5, 2016 or as soon as possible thereafter.

**7. PLACE OF WORK**

The candidate is expected to reside in Barbados during the period of employment. The CIMH is an equal opportunity employer. A good knowledge of the Caribbean would be an asset.