



Further Particulars

SENIOR RESEARCH FELLOW/ RESEARCH FELLOW (SEISMOLOGIST)

Be part of a Great West Indian Tradition

The University of the West Indies (UWI) is a well-established independent university that serves 17 countries of the Commonwealth Caribbean: Anguilla, Antigua & Barbuda, The Bahamas, Barbados, Belize, Bermuda, The British Virgin Islands, The Cayman Islands, Dominica, Grenada, Jamaica, Montserrat, St. Kitts & Nevis, St. Lucia, St. Vincent & the Grenadines, Trinidad & Tobago, and the Turks & Caicos Islands.

An innovative, internationally competitive, contemporary university deeply rooted in the Caribbean, The UWI is an international university, in every respect, with links extending beyond the region to well over 100 universities worldwide.

As the number one Caribbean University, The UWI is internationally recognized as a centre of excellence in research, knowledge creation and innovation on matters related to the Caribbean and Small Island States. Our research capacity is an important asset and our research agenda addresses priority areas aligned to specific developmental needs of the Caribbean region that we serve.



OUR HISTORY

The UWI is the oldest, fully regional institution of higher learning in the Commonwealth Caribbean. The UWI began at the Mona Campus, Jamaica, in 1948 as a College of the University of London; and in 1962 achieved full university status. The St. Augustine Campus in Trinidad and Tobago was established in 1961 and in 1963 a third Campus was established at Cave Hill in Barbados. In 2008 the University established a fourth Campus – The Open Campus – to better manage and expand multi-mode delivery of its programmes.

OUR FACULTIES

The eight faculties of The UWI offer a wide range of Undergraduate, Master's and Doctoral programmes in Engineering, Food & Agriculture, Humanities & Education, Law, Medical Sciences, Science & Technology, Social Sciences and Sport. Several of these programmes are delivered through the distance mode.

Visit us online at www.uwi.edu to find out more about The UWI or www.sta.uwi.edu for more on the St. Augustine Campus. For the latest news, follow us on [Facebook](#), [Twitter](#), [Flickr](#), [YouTube](#) and [UWItv](#).



ABOUT THE UWI SEISMIC RESEARCH CENTRE

The UWI Seismic Research Centre (SRC) was set up in 1953 and became part of The UWI in 1962. From its headquarters in Trinidad, it operates a network of seismograph stations extending from Trinidad and Tobago through the Lesser Antilles to St. Kitts. THE SRC is responsible for monitoring earthquake and volcanic activity in these islands. Persons interested in this post are strongly advised to visit our website at <http://www.uwiseismic.com> to learn more about the operations of the SRC.

The region in which these countries are located is seismically active and historically has been the site of earthquakes of magnitude greater than 8.0. There are at least 19 live volcanoes in the region, some of which have known historical eruptions, most recently in Montserrat from 1995-present and Dominica in 1997.

The main method of day-to-day monitoring of these phenomena is the operation of over 60 instruments that comprise a mixture of three-component broadband seismograph stations, Kinematic K2 accelerographs three-component short-period seismometers and single vertical component stations. All three-component stations send their data, and those from associated single component stations, to Trinidad using satellite and/or internet technology. When activity increases at any node of the system, data can be processed locally in real time. Other techniques in use include ground deformation measurement, thermal and chemical measurements and frequent ground reconnaissance. The SRC has an active programme of geological research aimed primarily at reconstruction of the geological history of the volcanoes and prediction of their future patterns of behaviour.

The SRC cooperates closely with other seismological and volcanological institutions both within the region and abroad. Although the primary function of the SRC is concerned with public safety, there are ample opportunities for original research and staff members are strongly encouraged to develop independent research projects and

to publish their results in the international literature. Since SRC is an integral part of The University of the West Indies, supervision of graduate students is encouraged. The Department offers programmes of study leading to:

Postgraduate:

- M.Phil. Seismology
- M.Phil. Volcanology
- PhD. Seismology
- PhD. Volcanology

A significant proportion of the income of the SRC is raised through external grants. All members of staff are encouraged to develop their skills in soliciting external funding. The SRC is responsible for managing the operations of the Montserrat Volcano Observatory (MVO) in Montserrat and has five members of staff permanently stationed on the island.

CURRENT MEMBERS OF STAFF

SRC has provision for a staff complement of 24 persons including 12 Academic, Senior Administrative and Professional staff and 12 Administrative, Technical and Service Staff. The complement of professional staff is split between Trinidad and Montserrat (MVO) and includes the following persons:

Professor Richard Robertson	B.Sc. (UWI), M. Phil (Leeds), Ph.D. (UWI)– Director
Dr. Joan Latchman	B.Sc., M. Phil., Ph.D. (UWI), Research Fellow – Senior Research Fellow (Seismologist)
Mr. Lloyd Lynch	B.Sc. (UWI), Research Fellow (Instrumentation)
Dr. Graham Ryan	MPhys (Manchester), PhD (Lancaster) – Research Fellow (Volcanologist)
Dr. Ilias Papadopoulos	BSc (Eng) (UWI), PhD (UWI)
Dr. Erouscilla Joseph	B.Sc. (UWI), M.Phil. (UWI), Ph.D. (UWI) - Research Fellow (Volcanology)



Mr Roderick Stewart	B.Sc (Edinburgh) – Volcano-Seismologist (Senior Research Fellow)
Dr. Adam Stinton	B.Sc. (Plymouth), M.S. (Buffalo), Ph.D (Buffalo) – Research Fellow (MVO Volcanologist)
Dr. Thomas Christopher	B.Sc. (UWI), Ph.D. (Cambridge) – Research Fellow (MVO Volcanologist)
Dr. Karen Pascal	B.Sc. (Blaise-Pascal), M.Sc. (Leeds), Ph.D. (Leeds) – Research Fellow (MVO Volcanologist)
Ms. Stacey Edwards	B.A. (Howard), Ed.M (Harvard), Education Officer – Education Officer
Mr. Chandradath Ramsingh	B.Sc. (UWI) - IT Officer II

SPECIAL RESPONSIBILITIES

- Leading the Seismic Research Centre (SRC) program in seismology and related areas
- Assisting with the development and supervision of post-graduate students involved in this discipline
- Maintaining the regional, instrumental, earthquake catalogue, ensuring its completeness and consistency
- Ensuring the efficient operation and maintenance of the seismic network
- Providing oversight to the technical seismology staff and coordinating and contributing to their ongoing training and development.
- Interpreting seismic data and reporting to the SRC Director regularly, particularly with regard to the necessity for and timeliness of warnings to be provided to SRC contributing territories
- Taking charge of the setup and operation of seismological software (e.g. Earthworm, Seiscomp) on SRC's data acquisition and processing servers
- Working with National Disaster Management Agencies

and the engineering community in the Caribbean to promote the development and use of appropriate building codes in the design and construction of structures

- Assisting with the day-to-day running of the SRC

QUALIFICATIONS AND EXPERIENCE

The successful candidate must possess a PhD or equivalent in Seismology or Geophysics.

Candidates must also have:

- A BSc in Earth Science, Physics or Geophysics
- At least five years of observatory-type experience working with tectonic and/or volcanic seismicity in a regional setting including routine determination of hypocentre locations, magnitudes and fault-plane solutions
- Experience in the operation of modern telemetered digital seismograph networks for the detection and assessment of regional earthquakes
- Experience in the application of seismic and other techniques for monitoring active volcanoes
- Experience with Python, Earthworm, Seisan, Seiscomp, Soufriere System/WURST and Seed and programming in Python, C and C++

Experience in a leadership role would be advantageous. Work experience in a similar institute would be an asset.

PERSONAL ATTRIBUTES

The Centre places high priority on individuals of integrity who can work well in a team and student friendly environment. Candidates should also possess good communication and interpersonal skills. A good command of both oral and written English is essential. Candidates must also:

- Have knowledge of computer programming and software Development
- Be able to communicate science to non-scientists, with diplomacy and sensitivity, across the entire social spectrum and to government officials
- Have demonstrated presentation and communication skills, and be particularly adept in conveying complex ideas to a range of audiences

- Be in possession of valid driver's permit, or willing to acquire one rapidly

REMUNERATION PACKAGE

ANNUAL SALARY RANGE:

Senior Research Fellow:

Minimum: TT\$340,164 per annum

Maximum: TT\$421,704 per annum

Research Fellow:

Minimum: TT\$239,544 per annum

Maximum: TT\$333,456 per annum

BENEFITS:

- Special allowance of 6% of basic salary;
- Transportation Allowance of TT\$3,250 per month;
- Up to five economy class passages plus baggage allowance of US\$3,000.00 (TT\$ equivalent) on appointment and normal termination;
- Unfurnished accommodation at 10% or furnished at 12½% of basic salary, or housing allowance of 20% of basic salary to staff making own housing arrangements;
- UWI contribution of equivalent of 10% of basic salary to Superannuation Scheme;
- Annual Study and Travel Grant (available after first year of service); -TT\$20,717.00 per annum
- Institutional Visit Allowance – TT\$ 7,200.00 per annum
- Book Grant – TT\$6,000 per annum
- Contributory Health Insurance – 50%
- Group Life Insurance Scheme

The Registry
St. Augustine
File # 162/25/16 I
2019 June
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