



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 11 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 islands are located is seismically active and historically has been the site of earthquakes of magnitude greater than 8.0. There are at least 21 live volcanoes in the region, some of which have known historical eruptions. Among the volcanoes that have shown recent eruptions are: Soufrière Hills Volcano in Montserrat (1995 – present), Kick ‘em Jenny (2017, 2015, 2001, and 1990) and a phreatic eruption in Dominica (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, three-component short-period seismometers, strong motion stations 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. Other monitoring techniques in use include ground deformation measurement and thermal and geochemical (gas and water chemistry) measurements. The SRC has an active programme of research in the field of geoscience aimed at complementing hazard, risk assessment and early warning.

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 six members of staff permanently stationed on the island.

CURRENT MEMBERS OF STAFF

SRC has provision for a staff complement of 26 persons including 13 Academic, Senior Administrative and Professional Staff and 13 Administrative, Technical and Service Staff. The complement of professional staff is split between Trinidad and Montserrat and includes the following persons:

Dr. Erouscilla Joseph	B.Sc. (UWI), M.Phil. (UWI), Ph.D. (UWI) – Director SRC
Prof. Richard Robertson	B.Sc. (UWI), M. Phil (Leeds), Ph.D. (UWI) – Senior Research Fellow (Geologist)
Dr. Joan Latchman	B.Sc., M. Phil., Ph.D. (UWI) – Research Fellow (Seismologist)
Mr. Lloyd Lynch	B.Sc. (UWI), Research Fellow (Instrumentation)
Dr. Ilias Papadopoulos	MSc (A.U.Th), PhD (A.U.Th) –Research Fellow (Geophysics)
Dr. Graham Ryan	MPhys (Manchester), PhD (Lancaster) – Director MVO
Mr. Roderick Stewart	B.Sc (Edinburgh) – Research Fellow (MVO Volcano Seismologist)
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)
Dr. Victoria Miller	B.Sc. (Plymouth), M.Sc. (Victoria University of Wellington), Ph.D. (Penn State) – Research Fellow (MVO Volcanologist)
Mrs. Stacey Edwards	B.A. (Howard), Ed.M (Harvard) – Education Officer
Mr. Chandradath Ramsingh	B.Sc. (UWI) - IT Officer II

QUALIFICATIONS AND EXPERIENCE

The successful candidate should possess a PhD in a relevant aspect of Seismology or Geophysics.

Candidates must also have experience in:

- The application of seismic and other techniques for monitoring active volcanoes
- A leadership role and supervision of postgraduate students in related disciplines

Candidates with the following will have an advantage:

- Postgraduate degree (e.g. MPhil) or equivalent in Seismology/Geophysics
- Observatory-type experience working with tectonic and/or volcanic seismicity in a regional setting
- Practical experience (including programming and software development) with Python, Earthworm, Seisan and Seiscomp
- Experience in the operation of modern telemetered digital seismograph networks for the detection and assessment of regional earthquakes

A BSc in Earth Science or Geophysics will be considered an asset.

SPECIAL RESPONSIBILITIES

- Working with a team of technicians, earth scientists and engineers to provide real-time earthquake and volcanic surveillance in the Eastern Caribbean
- Developing a research program, in collaboration with other staff members, with the overall aim of improving the understanding of tectonic and volcanic processes,

as well as the hazards associated with the regional geodynamic processes. The nature of this research will depend on the individual's research background and experience

- Maintaining the regional, instrumental, earthquake catalogue ensuring its completeness going forward and backward in time
- Providing oversight, coordinating and contributing to the ongoing training and development of technical seismology staff
- 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
- Playing a lead role in the operations, maintenance and further development of seismological data acquisition and processing tools that underpin the SRCs monitoring and research functions (e.g. Earthworm, Seiscomp)
- Working with other regional risk reduction stakeholders to strengthen capacity building for the production and application of earthquake and volcanic hazard/risk assessment tools in a more consistent manner
- Assisting with the day-to-day operations of the SRC, as the need arises

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:

- Be competent in interpreting and manipulating earthquake data, in all its forms
- Be competent in computer programming and software used in seismology
- Be able to communicate science to non-scientists, with diplomacy and sensitivity, across the entire social spectrum and to government officials
- Have knowledge of computer programming and software development which would be highly beneficial
- Have demonstrable presentation and communication skills, particularly 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
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