



Further Particulars

Contract Officer III

Be part of a Great West Indian Tradition

The University of the West Indies (UWI) is an established independent University that serves mainly the English-speaking territories of the West Indies. The countries listed hereunder all contribute to the UWI:

Anguilla, Antigua & Barbuda, the Cayman Islands, the Commonwealth of the Bahamas, Barbados, Belize, the British Virgin Islands, the Commonwealth of Dominica,

Grenada, Jamaica, Montserrat, St. Christopher & Nevis, St. Lucia, St. Vincent & the Grenadines and the Republic of Trinidad & Tobago.

Our annual output of graduates, Caribbean-focused research and policy advice provided to governments and the private sector, continue to have a profound influence on the English-speaking Caribbean, contributing to the region's stability and its relative well-being.



OUR HISTORY

The University of the West Indies 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 seven faculties of the UWI offer a wide range of Undergraduate, Master's and Doctoral programmes in Food and Agriculture, Humanities and Education, Engineering, Law, Medical and Veterinary Sciences, Science and Technology and Social Sciences. 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 and the Region we serve!



Department of Chemistry

The teaching of Chemistry at St. Augustine began in 1963 in the former College of Arts and Sciences and today is part of the Faculty of Science and Agriculture. It has produced many MPhil and PhD graduates over several decades and many of these have become distinguished individuals in academia, industry and government locally, regionally and internationally. Currently the department through direction by its highly qualified and reputed staff engages in cutting-edge research covering a wide range of research themes, most of which are cross-disciplinary and of local,

regional and international significance. The high quality research is facilitated by a range of state-of-the-art instrumentation. Various research groups in the department also collaborate with regional (other UWI campuses) and international research institutes.

Cutting-edge Research Areas

The cutting-edge research in the department is multidisciplinary and covers several research themes.

Physical Chemistry: This area of research is both basic-theoretical as well as applied and includes:

- Determination of ion transport properties of novel amphiphilic molecules.
- Use of NMR techniques, for example in the elucidation of reaction mechanisms and equilibria, NQR etc.
- Polymer recycling using fluidized bed reactor.
- Corrosion Chemistry

Natural Products and Synthetic Organic Chemistry:

- Extraction, analysis and pharmacological testing of novel natural products isolated from a variety of plant and animal sources.
- Organic Synthesis – chiral molecules (catalysts, reagents, auxiliaries), carbohydrates and peptides.

Environmental and Analytical Chemistry:

- Development of biosensors, immobilized enzyme chemistry and immobilized bioreactors.
- Analysis of toxins, pesticide residues, heavy metal contaminants in the environment, and remedial activities.
- Biofuels – Development of biofuels from waste and novel virgin materials.

Inorganic and Materials Chemistry:

- Liquid crystal compounds: LCD Applications

- Semiconducting Nanomaterials: Solar cell applications
- Novel functionalized macrocycles: Pharmacological applications
- Supramolecular organometallic complexes: Electronic applications.

State-of-the-Art Instrumentation

The department is well equipped with some of the most advanced state-of-the-art instrumentation to facilitate the cutting-edge research. Some include:

- 300, 400, 600 MHz NMR Spectrometers
- GC & LC Mass Spectrometers
- UATR FTIR; D-A & UV-vis Spectrophotometers
- Inductively Coupled Plasma Mass Spectrometer
- Atomic Force-Scanning Electrochemical Microscope
- Modular TGA/DSC/DTA/TMA Calorimeters
- Parallel Computer Cluster-Computational Workstations

PRESENT MEMBERS OF ACADEMIC STAFF

Head of Department – Dr. Lebert Grierson

BSc, PhD (Lond) - Lecturer, Physical Chemistry: Biophysical Chemistry and Material Sciences

Denise Beckles, AB (Harvard), MSc, PhD (Rice University)
-Lecturer, Environmental Chemistry

Grace-Anne Bent, BSc, PhD (UWI) - Lecturer, Analytical Chemistry: Environmental Monitoring and Food Safety

Richard Fairman, BSc, PhD (UWI) - Lecturer, Inorganic Chemistry: Functionalised Macrocycles; Rational Design and Construction of Supramolecular Assemblies

Michael Forde, MChem (Edin), PhD (Cardiff) - Lecturer, Chemistry: Green Chemistry and Industrial Catalysis

Nigel Jalsa, BSc, PhD (UWI) - Lecturer, Organic Chemistry /Biological Chemistry

Franklyn Julien, BSc Chem Engineering (Hampton)
BSc Electrical Engineering (Ryerson)
Development Engineer - Mass Spectrometry Services

Arvind Kumar, MSc (Gorakhpur); PhD (Tripura)
Senior Lecturer, Inorganic Chemistry:
Synthesis and study of inorganic coordinate and organometallic complexes; Dye sensitized solar cells materials

Wendy Lawrence, BSc, MPhil (UWI) and MBA (Henley)
Coordinator, Occupational and Environmental Safety and Health

Terry Mohammed, BSc, PhD (UWI), MBA (Harriot-Watt)
Lecturer, Analytical Chemistry

Ramish Pingal, BSc, PhD (UWI) - Lab Manager/ Lecturer, Organic Chemistry: Natural Products Chemistry and Biotesting

Russel Ramsewak, BSc, PhD (UWI) - Senior Lecturer, Organic Chemistry: Structure elucidation of natural products and determination of biological activities

Mohindra Seepersaud, BSc, MPhil (UWI), PhD (CUNY)
Lecturer, Bioorganic Chemistry

Gurdial Singh, BSc (Liv.), PhD (Man) - Professor of Chemistry
Organic synthesis; carbohydrate and peptide chemistry

Nadia Singh, BSc, PhD (UWI)
Development Engineer - NMR Services

David Stephenson, BA (York), MPhil (CNA) PhD (Lond)
Senior Lecturer, Physical Chemistry: Nuclear Quadrupole and Nuclear Magnetic Resonance Spectroscopy

Richard Taylor, BSc, PhD (UWI) - Lecturer, Inorganic Materials Chemistry: Materials Chemistry/Liquid Crystals

Ann Wilson, BSc, PhD (UWI)- Lecturer, Physical/Corrosion Chemistry

KEY RESPONSIBILITY OF THE Contract Officer

- Conducts and actively supports research in analytical/environmental chemistry.
- Manages the AFM and ICPMS instruments and trains students and staff in their use.
- Leads the department's revenue generating initiatives in research, consulting and analytical services.
- Interfaces with clients requiring services, identifying and assembling the requisite resources and coordinating delivery of these services.
- Collaborates with other departments and public and private agencies to develop funded projects and leads in the writing of grant proposals.
- Leads the effort through contract research to provide solutions to problems of clients in the private and public sectors both locally and regionally.
- Organizes the Department's Outreach activities with the public and other stakeholders e.g. U.W.I. Open Days, exhibitions, visiting schools and coordinating such visits, organizing visits of schools to the department; meetings with Alumni and industry representatives

QUALIFICATION

Ph.D. in Chemistry or other acceptable qualifications. A past success in grant winning, training in project management and experience in research would be assets.

PERSONAL ATTRIBUTES

The Department places high priority on individuals who can work well in a team environment. Candidate should also possess good communication and interpersonal skills. A good command of English is essential. Candidates must:

- Be able to meet deadlines.
- Be computer literate.

- Have good leadership and management skill

Experience

- Research, Outreach, Consultancy and Project Management.

REMUNERATION PACKAGE

ANNUAL SALARY RANGE:

Contract Officer III: Minimum: TT\$173,676

Maximum: TT\$199,596

BENEFITS:

- Transportation Allowance of TT\$2,950 per month;

The Registry
St. Augustine

