



Further Particulars

Senior Lecturer/
Lecturer in
Organic Chemistry

Be part of a Great West Indian Tradition

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

Anguilla, Antigua & Barbuda, Bermuda, 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, The Republic of Trinidad & Tobago, Turks and Caicos.

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 wellbeing.



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 seven Faculties of The UWI offer a wide range of Undergraduate, Master's and Doctoral programmes in Food & Agriculture, Humanities & Education, Engineering, Law, Medical & Veterinary Sciences, Science & 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!



FACULTY OF SCIENCE AND TECHNOLOGY

The Faculty of Science & Technology was formed in 2012 out of the former Faculty of Science & Agriculture which has now split into two Faculties, the Faculty of Science & Technology and the Faculty of Food & Agriculture.

The Faculty of Science & Technology comprises the Departments of: Chemistry, Life Sciences, Mathematics & Statistics, Computing & Information Technology and Physics.

The Faculty of Science & Technology offers Bachelor of Science degrees with majors or specializations in Actuarial Science, Alternative Energy Technology, Biochemistry, Biology, Biomedical Technology, Biotechnology, Botany, Chemistry, Chemistry and Management, Computer Science, Computer Science with Management, Ecology & Environmental Biology, Environment and Natural Resource Management, Environmental Science & Sustainable Technology, Environmental Technology, Information Technology, Information Technology with Management, Marine Biology, Mathematics, Mathematics & Applied Statistics, Microbiology, Plant Biology, Physics, Statistics, Statistics and Economics, and Zoology.

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

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

DUTIES OF THE APPOINTEE

The successful applicant will be responsible for the following duties:

- Developing an externally funded research program;
- Providing quality teaching and mentoring of graduate and undergraduate students

- Participating in Departmental and University initiatives.

Research – Persons appointed to posts in the Faculty of Science and Technology, St. Augustine, will be expected to actively participate in research activities pertaining to his/her field of expertise and/or in collaboration with other Departments as appropriate.

Tenure of Appointment – Appointment as Lecturer/Assistant Lecturer will normally be for (3) years in the first instance, with eligibility for renewal.

Subsequent to the first appointment, a member of staff who has served in an academic position in this or some other University for a period of six (6) years will be eligible for consideration for appointment on indefinite tenure.

Further details may be obtained from the Registrar, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.

- An outstanding publication record, and a well-developed research plan
- Demonstrable synthetic experience
- Considerable experience in teaching at the tertiary level

Further consideration will be given to candidates possessing:

- Experience in Project Management
- A track record of successful grant applications
- Successful supervision of Ph.D. students
- Certificate in teaching at university level

Candidates should submit in PDF format a cover letter, curriculum Vitae, research interests and teaching statements (not to exceed three pages each), five representative publications and have three letter of reference by independent referees.

PERSONAL ATTRIBUTES

The Department places high priority on individuals of integrity and 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 a motivated individual, preferably with research interests in one or more of the areas of pharmaceutically active small molecules, Heterocycles or Peptide Chemistry.
- Have a strong research agenda indicating the ability to publish in high quality journals.

Lecturer:	Minimum	TT\$239,544
	Maximum	TT\$333,456

(US\$1.00 = TT\$6.79)

Benefits:

- Special allowance of 6% of basic salary;
- Transportation Allowance of TT\$3,250.00 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\$6,000.00;
- Contributory Health Insurance – 50%;
- UWI Group Life Insurance.

The Registry
St. Augustine
File# 157/81
2018 May 21

QUALIFICATION AND EXPERIENCE

The successful candidate must have a Ph.D. in Chemistry focused on Organic Chemistry, Medicinal Chemistry, Bio-Organic Chemistry, or Natural Products Isolation and Synthesis. Candidates must also possess:

- Relevant postdoctoral research experience

REMUNERATION PACKAGE

ANNUAL BASIC SALARY RANGE:

Senior Lecturer:	Minimum	TT\$340,164
	Maximum	TT\$421,704