



Further Particulars

Lecturer in Physics

Be part of a Great West Indian Tradition

The University of the West Indies (UWI) is 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, 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.

Our annual output of graduates, Caribbean-focussed 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 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, masters 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!



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 offers Bachelor of Science Degrees in Actuarial Science, Biology, Biomedical Technology, Chemistry, Chemistry & Management, Computer Sciences, Mathematics, Physics, Statistics & Economics as well as a BSc (General) with majors in Biology, Biochemistry, Chemistry, Computer Sciences, Maths and Physics.

THE DEPARTMENT OF PHYSICS

The Department of Physics is committed to delivering internationally recognized teaching and research programmes to its students in Pure and Applied Physics. We offer at the undergraduate level, a B.Sc. in Biomedical Technology (special degree), Majors in Physics and Electronics and students have the option of pursuing up to two of four Minors in Applied Physics: Environmental Physics, Medical Physics & Bioengineering, Materials Science and Electronics.

RESEARCH

Environmental Physics encompasses research in Caribbean climatology, climate change & impact assessments, renewable energy, petrophysics, soil erosion and noise pollution. The Department of Physics has had a long history in solar energy. In

addition, the Solar Energy Laboratory has been pivotal in establishing a photovoltaic demonstration site. In the past few years, we have extended our research into wind and geothermal energy. Our focus in Medical Physics research is currently on anthropometrics and ergonomics, and radiation medicine. Our Very Large Scale Integration (VLSI) Laboratory was specifically established for the design and simulation of communication systems. In addition to the above, there is also ongoing research in Quantum Optics, Optoelectronics, and Astronomy and Astrobiology. Graduate students who wish to pursue research in the primary and related research areas will find willing mentors among faculty, technicians, and administrative staff members.

(a) Research Possibilities

The proximity of the Faculty of Engineering, as well as the Seismic Research Unit, which are situated on the St. Augustine Campus, provide excellent opportunities for rewarding research in areas of Physics. Collaboration with the sister campuses at Cave Hill (Barbados) and Mona (Jamaica) is encouraged.

ESTABLISHMENT

- | | |
|-----|----------------------|
| (a) | Academic |
| 1 | Professor |
| 2 | Senior Lecturers |
| 8 | Lecturers |
| 1 | Development Engineer |

Demonstrators (Part-time staff)(Budgetary provision available)

STUDENT NUMBERS AND CLASS SIZES

The average class sizes are:

B.Sc. General

Year I	-	125 - 200
Year II	-	40 - 100
Year III	-	40 - 100

The Department of Physics offers taught postgraduate courses leading to an M.Sc. and research based programmes leading to M.Phil. and Ph.D. degrees. In 2013, we launched for the first time an M.Sc. in Renewable Energy Technology, and in September 2016, the M.Sc. in Biomedical Physics. The primary areas of specialization for research degrees are in Pure Physics, Astronomy, and in Applied Physics fields of Materials Science, Environmental Physics, Renewable Energy, Medical Physics, Bioengineering and Electronics.

Our specialist unit in Electron Microscopy (SEM and TEM) offers services in collaboration with the Faculty of Medical Sciences.

PROGRAMME OFFERING

The Department offers programme of studies leading to:

Undergraduate:

- B.Sc. Biomedical Technology

Majors:

- Physics
- Electronics

Minors:

- Materials Science

- Electronics
- Medical Physics & Bioengineering
- Environmental Physics

Postgraduate:

- M.Sc. in Renewable Energy Technology
- M.Sc. in Biomedical Physics
- M.Phil in Physics
- Ph.D. in Physics

CURRENT MEMBERS OF ACADEMIC STAFF AND THEIR RESEARCH AREAS

Ricardo Clarke
Head of Department
B.Sc., M.Phil, Ph.D. (UWI)
Lecturer, Environmental Physics

Roger Andrews
B.Sc., Ph.D. (Lond.)
Lecturer, Quantum Physics

Xsitaaz Chadee
B.Sc., M.Phil, Ph.D. (UWI)
Lecturer, Environmental Physics/Renewable Energy

Shirin Haque
B.Sc. M.Phil in Psychology, M.Phil in Physics, Ph.D. (UWI)
Senior Lecturer, Astronomy

Indra Haraksingh
B.Sc., Dip.Ed, Ph.D. (UWI)
Lecturer, Environmental Physics

Davinder Pal Sharma
B.Sc., MSc, PhD (GNDU)
Lecturer, Electronics

Nikolay Zyuzikov
B.Sc. (MEPHI); MSc (QMUL); PhD (MRRC)
Lecturer, Medical Physics

Senior Electronics Maintenance Officer
Mr. Michael N. Charles (Electronics Workshop)

Supervisors Technical Staff
Mr. S. Ali Shah
B.Sc. M.Phil. (UWI)
Chief Engineering Technician (Laboratory)

Mr. K. Gowrie
Chief Technician (Mechanical Workshop)

Mr. D. Hinds
B.Sc. (W.I.T, USA) Development Engineer
(Electron Microscope)

Existing Research Facilities
Modest research facilities exist in all areas mentioned above.

LIBRARY FACILITIES
See The Alma Jordan Library

DUTIES OF THE APPOINTEES

The Lecturer in Physics should possess a PhD in Physics from a recognized University. The successful candidate should have considerable academic and professional experience, including teaching and research at the tertiary level. Candidates must have a good publication record in peer-reviewed international journals

Qualifications

Must have a PhD in Physics or related area

Experience

- Must have experience in teaching and research at an institution of higher learning.
- Demonstrated scholarly activity (peer-reviewed publications).

Areas of Specialization

- Materials Science or any other related field
- Medical Physics or any other related field
- Physics or any other related area

The appointee will be expected to:

Teaching:

Enact curriculum, develop course materials and supervise research projects for both undergraduate and graduate courses:

- Grade and assess student learning outcomes;
- Perform academic advising;
- Deliver training as and when required;
- Evaluate the effectiveness of programmes and make recommendations for improvements;
- Coordinate and lead academic programmes;
- Supervise/Guide Master's and Doctoral level dissertations;
- Undertake an appropriate teaching and administrative load at the undergraduate /postgraduate levels.

Research

- Conduct research in a particular field of knowledge and publish findings in peer-reviewed international journals;
- Stay current in related discipline through involvement in professional organizations, workshops, etc.;
- Secure research grant funding;
- Develop and maintain a research agenda around national and regional needs;
- Foster a culture of techno-entrepreneurship.

Service

- Participate in various committees at The UWI as well as provide service to the wider community through workshops, seminars, public lectures and consulting services to government and industry;
- Serve as a departmental representative to The UWI and to the national community.

Personal Attributes

- Demonstrate expertise (both theory and practice) in subject field or discipline;
- Demonstrate leadership and decision making skills;
- Secure grants/funding;
- Sound pedagogical skills;
- Demonstrate commitment to professional excellence and continuous growth within subject field or discipline, including advanced teaching methods to support undergraduate and graduate student learning and career objectives;
- Demonstrate potential for scholarly productivity;
- Ability to work with campus-based personnel and students;

- Have excellent written and oral communication skills in English.

REMUNERATION PACKAGE

ANNUAL BASIC SALARY RANGE:

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

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

(US\$1.00 = TT\$6.78)

Benefits:

- Special allowance of 6% of basic salary;
- Transportation Allowance of TT\$3,250 per month;
- 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 per annum
- Institutional Visit Allowance - TT\$7,200 per annum
- Book Grant TT\$6,000 per annum
- Contributory Health Insurance and Group Life Scheme.

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