



Lecturer in Structural Engineering

FURTHER PARTICULARS

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. [Read more ...](#)

Ranked Among the Best

Only Caribbean University Ranked Among BEST IN THE WORLD



- ▶ CARIBBEAN'S #1
- ▶ WORLD'S TOP 1.5 %
- ▶ LATIN AMERICA'S TOP 20
- ▶ WORLD'S GOLDEN AGE TOP 100
- ▶ IMPACT RANKINGS 2.5%

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.

The Times Higher Education rankings in 2018 and 2019, placed The UWI as the number 1 ranked university in the Caribbean out of over 200 registered institutions across the region; and among the top 3% of some 2,000 registered universities in the wider Latin America and the Caribbean. In 2020 The UWI was ranked among the THE's top 100 "Golden Age" universities established between 1945 and 1967. [Read more ...](#)

About UWI

The first of UWI's five campuses began in 1948 at Mona, Jamaica, as a College of the University of London. The St. Augustine Campus in Trinidad & Tobago was added in 1961 and UWI achieved full university status in 1962. St. Augustine was followed by campuses at Cave Hill, Barbados (1963), the Open Campus (2008), and the Five Islands Campus in Antigua & Barbuda (2019). [Read more ...](#)

Our 8 Faculties

Teaching at the St. Augustine Campus takes place within eight faculties - Engineering, Food & Agriculture, Humanities & Education, Law, Medical Sciences, Science & Technology, Social Sciences, and Sport. Each Faculty offers a wide range of undergraduate and postgraduate programmes. [Find out more ...](#)

Get to Know Us

Visit <https://www.uwi.edu/> to find out more about The UWI. For more on the St. Augustine Campus, visit <https://sta.uwi.edu/>. Read the latest Campus news in our monthly publication, *UWI Today* and follow us on social media [Facebook](#), [Twitter](#), [Instagram](#), [YouTube](#), [LinkedIn](#).

About the FACULTY OF ENGINEERING

The Faculty of Engineering is comprised of five Departments, namely: The Department of Chemical Engineering, the Department of Civil & Environmental Engineering, the Department of Electrical & Computer Engineering, the Department of Geomatics Engineering & Land Management and the Department of Mechanical & Manufacturing Engineering

The Department of Civil & Environmental Engineering

The Construction Engineering and Management section is part of the Department of Civil & Environmental Engineering, Faculty of Engineering. <https://sta.uwi.edu/eng/civil/>

We offer postgraduate degree programmes in Department of Civil & Environmental Engineering at the MPhil and PhD levels, and an undergraduate. Postgraduate students have the option of doing practice-based research.

Construction Engineering and Management

The aim of the Construction Engineering and Management programme is to promote and institutionalise the critical study of Construction Engineering Management at the University of the West Indies. The section seeks to engage with pertinent issues and problems related to culture, representation, power and policy in and beyond the Caribbean. The section does this by introducing students to the history, methodologies and theoretical traditions of Construction Engineering and

Management section and fostering students' skills and confidence in critical thinking and independent research.

Research

Research in the Construction Engineering and Management section programme focusses on a range of theoretical questions in and beyond the Caribbean and its diaspora. For information on the research conducted at the Department of Civil & Environmental Engineering visit the Faculty webpage at <https://sta.uwi.edu/eng/civil/>

The University of the West Indies supports the research activities of permanent members of staff by providing study leave, special leave for scholarly purposes, and sabbatical leave, as well as offering funding for research trips, fieldwork, institutional visits, conference participation and organisation, and research assistants. For more information on research funding, see <https://sta.uwi.edu/research/research-funding>

Lecturer in Structural Engineering

Qualifications and Experience

The successful candidate must possess at minimum, a PhD from a recognised university, in Structural Engineering, Structural Dynamics, Earthquake Engineering, Wind Engineering, Computational Structural Mechanics or a closely related field, with a B.Sc. (Honours) in Civil Engineering or Civil and Environmental Engineering, or equivalent/related Engineering discipline.

Candidates should also possess:

- At least three (3) years' teaching experience at the undergraduate and postgraduate levels, at a recognised tertiary institution or university, in the field of Structural Dynamics, Structural Engineering or a closely related field
- A good record of relevant research and publications in reputable peer reviewed journals in the area of Structural Dynamics, Numerical Modelling, or related fields
- Experience in the supervision of student research projects at the undergraduate and postgraduate levels
- A strong foundation in Structural Dynamics and Numerical Analysis of Structures under time-varying and extreme loading conditions
- A strong competence in Numerical Methods, Computational Structural Analysis, and Finite Element Modelling (FEM/FEA)
- Familiarity with commercial and open-source structural analysis software

Candidates with the following would have an advantage:

- Membership in a recognised Professional Engineering Body
- Experience in teaching and research in Earthquake Engineering, Wind Engineering, or Structural Response to Extreme Loading
- Experience in the areas of Finite Element Analysis (FEA) and Numerical Modelling of Structural Systems
- A good record of industry interaction to provide practical industry experience to students
- Specialisation in Earthquake Engineering, Wind Engineering, Computational Structural Mechanics, or related fields of Structural Engineering
- A strong background in earthquake-resistant and/or wind-resistant structural design
- Evidence of contributing to funding proposals and successfully obtaining funding for research
- Ability to contribute to curriculum development in Structural Engineering, particularly in dynamics and computational methods

The following would be considered assets:

- Certification in university teaching and learning
- Industrial or consultancy experience in Structural Design, Dynamic Analysis, Seismic Design, Wind-Resistant Design, or Computational Structural Engineering
- Experience in fracture and crack mechanics
- Experience in the application of Emerging Digital Technologies, including Artificial Intelligence and Machine Learning, Structural Engineering Research, Analysis, or Design

- Advanced knowledge of Computational Structural Mechanics and Nonlinear Finite Element Analysis

Key Responsibilities

- Teaching at the undergraduate and postgraduate levels in area of expertise
- Preparing and delivering lectures, tutorials, workshops, and seminars
- Developing, reviewing, and updating curricula, course materials, and assessment methods for delivery across multiple platforms
- Applying emerging Artificial Intelligence and data-driven methods in teaching, research, and structural engineering analysis
- Setting, moderating, and grading assignments, tests and examinations, and others forms of assessment
- Supervising undergraduate and postgraduate student projects, theses, and research activities
- Providing academic advising, mentoring, and support to students
- Conducting high-quality research and scholarly activities, including publishing in peer-reviewed outlets and disseminating research findings
- Developing research proposals and seeking external funding through grants, contracts, and collaborative initiatives
- Collaborating with academic staff, industry partners, and external stakeholders to advance teaching, research, and outreach activities
- Participating in Departmental, Faculty, and University Committees and Administrative activities
- Attending and contributing to professional meetings, conferences, workshops, and other academic events
- Engaging in professional development activities and maintain currency in the

discipline through scholarship and professional engagement

- Performing any other duties as may be assigned by the Head of Department or designate

Personal Attributes

The Campus 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 should also:

- Possess high standards of professional and ethical conduct
- Be commitment to excellence in teaching, research, and student development
- Be able to work collaboratively within a departmental and institutional environment
- Display initiative in academic development, research leadership, or programme enhancement

Candidates are further encouraged to enhance their application by providing the following:

- Cover Letter
- Teaching statement (1 page)
- Research statement (1 page)

Remuneration Package

Annual Salary Range:

Lecturer (Non-Medical):

Minimum: TT\$ 254,136.00 per annum

Maximum: TT\$ 353,760.00 per annum

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 (persons recruited from outside of T&T);
- Unfurnished accommodation at 10% or furnished at 12.5% 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\$24,548.00 per annum;
- Institutional Visit Allowance (available after first year of service) – TT\$7,200.00 per annum;
- Book Grant – TT\$6,000.00 per annum;
- Contributory Health Insurance – 50%;
- Group Life Insurance Scheme