UWI
ST. AUGUSTINE CAMPUS

Senior Lecturer/Lecturer in Reservoir 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

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 (https://sta.uwi.edu/eng/), comprises the Department of Chemical Engineering, the Department of Civil and Environmental Engineering, the Department of Electrical and
Computer Engineering, the Department of Geomatics Engineering & Land Management, and the Department of Mechanical and Manufacturing Engineering.

The Department of Chemical Engineering

The Department of Chemical Engineering comprise three divisions that offer several accredited programmes for the award of BSc and MSc degrees. The Divisions are Chemical and Process Engineering, Food Science and Technology Unit and the Petroleum Studies Unit. The Department provides local, regional and international students with high quality and professional education through its teaching, research, and civil society engagement and aims to produce highly motivated, civic-minded, entrepreneurial and innovative graduates who will be able to have successful careers in the local, regional and international workforce. This appointment is intended for the Petroleum Studies Unit.

Petroleum Studies Unit

The Petroleum Studies Unit (PSU) offers one (1) BSc programme in Petroleum Geoscience and (3) MSc programmes in Petroleum
Engineering, Reservoir Engineering, and Petroleum Engineering and Management. The Unit currently has 9 full time staff members alongside several part-time lecturers from industry and academia. There are approximately 75 students currently enrolled under the various graduate and undergraduate programmes of the PSU. The MSc and undergraduate programmes are accredited by the Energy Institute (EI) of London for further learning for CEng to 2025. The undergraduate Geoscience Programme is additionally accredited by the Geological Society of London.

Petroleum engineering involves the application of earth and physical sciences to the evaluation and exploitation of natural hydrocarbon resources. The dominant problems of the petroleum engineer are those of flow and equilibrium in porous media, in vertical and horizontal well bores, in surface pipelines and in primary process equipment. The complexity of the hydrocarbon fluids, and the geological strata involved in flow in reservoirs and production systems raises problems requiring sophisticated numerical techniques for their solution. In the practical field, drilling and production engineering continually pose new engineering problems requiring engineered solutions. This is a conversion programme from other engineering and

science-based degree foundations into the specialities of petroleum engineering. It is intended to provide the necessary background for employment in the oil and gas industry, or springboard for a research degree, as well as serving as a refresher for those already working in industry. Reservoir Engineering is a sub-set of Petroleum Engineering where understanding of the reservoir is studied in more detail for economic and optimized resource exploitation.

The Petroleum Studies Unit re-introduced the MSc in Petroleum Engineering and Management in Semester 1 of 2017/2018 academic year. It provides the option to study the management and commercial aspect of the petroleum industry. Decision-making, contractual negotiations and arrangements, financial implications and manpower management must be well understood and executed at various stages of the petroleum sector. The re-introduction of this programme is a response to the current needs of the oil and gas industry that is entering a new phase of development, needing more qualified persons who are trained in the management aspect of the sector. The MSc will also provide the necessary springboard for a research degree in Petroleum Engineering, as well as serve as a refresher for those already working in industry and who wish to have a more defined knowledge of the management aspect.

Petroleum Geoscience is concerned with understanding the shallow subsurface for identification of hydrocarbon resources. This field complements petroleum and reservoir engineering through the creation of earth models, and formulation of development programmes for economic exploitation of those resources. Quantitative petroleum geology and geophysics courses are a significant part of the Petroleum Geoscience degree though it also includes basic training in petrophysics and reservoir engineering.

Tenure of Appointment

Appointment as Senior Lecturer/Lecturer will normally be for three (3) years in the first instance, with eligibility for consideration for renewal.

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

Appointment to this post is subject to the Charter of the University and to its Statutes, Ordinances, Rules and Regulations, including Statute 36 – Retirement of Members of Staff.

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

Research

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 http://sta.uwi.edu/research/funding.asp

Senior Lecturer/Lecturer in Reservoir Engineering

Qualifications and Experience

The successful candidate must possess a PhD from a recognized university, which should be in Reservoir or Petroleum Engineering or closely related fields in engineering and the natural sciences.

Candidates should also possess:

- Specialization in Petroleum/Reservoir Engineering
- Teaching experience at a recognized tertiary institution/university
- Experience in supervision of student projects
- Substantial research and publications in area of expertise in reputable, peer-reviewed journals
- Proficiency in the area of Reservoir Engineering

Candidates with the following would have an advantage:

- Experience in the supervision of student research projects at Masters or Doctoral Level
- Proficiency in the field of formation evaluation
- Proficiency in Carbon Capture, Utilisation and Sequestration (CCUS)

The following would be considered assets:

- Chartered engineer
- Industry experience
- Certificate in university teaching and learning
- Proficiency in simulation and data analytics

Special Responsibilities

- Teaching undergraduate and postgraduate courses in Petroleum and Reservoir Engineering, Drilling and Completions, Reservoir Modelling, Energy Economics and/or Applied Geoscience.
- Supervising postgraduate (MSc, MPhil and PhD) student projects and mentoring of students
- Developing well recognized and independent research programmes capable of attracting external funding
- Engaging with local, regional and international stakeholders, other Departments and academic

institutions and Faculty through collaborative research
- Providing ongoing revision of the curriculum to keep abreast of development and innovation in the area of expertise
- Developing professional short courses to respond to the changes within the industry specifically focusing on local and regional needs
- Serving on committees at the Department, Faculty and University levels
- Liaising with industries
- Chairing various academic and nonacademic committees

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:

- Be able to interact and work well with staff, students and industry stakeholders
- Have good organizational and leadership skills
- Be self-motivated and capable of mentoring and motivating students
- Be fluent and articulate
- Be willing to forge working relationships and meaningful engagement with external stakeholders (industry and universities)
- Be committed to developing the Department's outreach programme

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:

Senior Lecturer (Non-Medical):
Minimum: TT$ 340,164.00 per annum
Maximum: TT$ 421,704.00 per annum

Lecturer (Non-Medical):
Minimum: TT$ 239,544.00 per annum
Maximum: TT$ 333,456.00 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 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$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

The Registry
St. Augustine
File # 173/2/15
2024 March
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