



## Further Particulars

# LECTURER IN PETROLEUM AND GEOSCIENCE

## 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](http://www.uwi.edu) to find out more about The UWI or [www.sta.uwi.edu](http://www.sta.uwi.edu) for more on the St. Augustine Campus and the region we serve!



## THE DEPARTMENT OF CHEMICAL ENGINEERING

The St. Augustine campus offers degree programmes through six faculties each headed by a Dean. The faculties are: Medicine, Engineering, Science and Agriculture, Social Sciences, Humanities and Education and Law. 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 Chemical Engineering has responsibilities for teaching, continuing education, and research in the four (4) disciplines of Chemical Engineering, Food Science and Technology and Petroleum Studies (Petroleum Engineering, Reservoir Engineering and Petroleum Geoscience).

### CHEMICAL AND PROCESS ENGINEERING

The Chemical Engineering Group comprises eight (8) full-time academic staff and an undergraduate population of around 180, including Doctoral students and Research Assistants. Teaching by Full-Time Academic Staff is well supported by Part-Time Instructors and Research Assistants. The Department has an international outlook for both teaching and research. It is the largest provider of Chemical Engineering graduates in the English-speaking non-USA territories of the West Indies, and our academic courses have a unique reputation regionally. The BSc and MSc programmes are currently accredited by the Institution of Chemical Engineers (IChemE). The BSc in Chemical and Process Engineering curriculum is organized along the traditional lines for such a programme. Entry standards to the undergraduate courses are among the highest in the Caribbean region.

Currently available facilities include the following laboratories: Unit Operations Electrochemical Engineering, Analytical Chemistry, Design Office, Reactions & Controls, Extraction and Science of Materials/Metallurgy. The Faculty has recently invested in new process biotechnology and multi-phase flow laboratories. The additional laboratory space provides an important part of our research strategy. Areas of current research include: sustainable energy, reaction engineering, multiphase flow, desalination and optimization, process control and electrochemical and corrosion, and process safety. Where appropriate, interdisciplinary research is done in collaborations across Campus, for example with the Departments of Chemistry and Life Sciences.

The Chemical Engineering Group maintains links with industry particularly in the area of Chemical Manufacture. The process industries form one of the key sectors in the economies of the English-speaking Caribbean. Thus, the petroleum and natural gas industries effectively support the economy in the Republic of Trinidad and Tobago, and the minerals industry (bauxite, cement, etc.) is of prime importance in Jamaica. In addition to these industries there exists a wide range of operations in the medium and small-scale process categories, such as soaps and detergents, paints, pharmaceuticals, oils and fats, etc. Staff participate actively in professional associations as well as scientific and technical societies, in particular, The Association of Professional Engineers of Trinidad & Tobago (APETT) and the UK's Institution of Chemical Engineers (IChemE).

Graduates of the Chemical and Process Engineering Programme have found employment in all aspects of the process industries, including Design, Process Engineering, Project Engineering, Operations Management, Technical Services and Marketing. Some individuals follow careers in the scientific and technical

civil service, whilst others pursue postgraduate studies in areas such as Petroleum Engineering.

## PROGRAMME OFFERING

The Department offers programme of studies leading to:

### Undergraduate:

BSc (Eng) in Chemical and Process Engineering  
BSc in Petroleum Geoscience

### Postgraduate:

MSc in Chemical and Process Engineering  
MSc in Chemical and Process Engineering with Management  
MSc in Chemical and Process Engineering with Environmental Engineering  
MSc in Food Science and Technology  
MSc in Petroleum Engineering  
MSc in Reservoir Engineering  
MSc in Petroleum Engineering and Management  
Diploma in Petroleum Engineering and Management  
MPhil and PhD in Chemical and Process Engineering  
MPhil and PhD in Food Science and Technology  
MPhil and PhD in Petroleum Geoscience  
MPhil and PhD in Petroleum Engineering

The BSc programme in Petroleum Engineering is on the books, but not currently offered. The Department also offers MPhil and PhD research programmes in the following areas:

Membrane technology  
Photo-bio-reactor project  
Solvent extraction  
Flow assurance project  
Safety in Process Plants  
Environmental Pollution  
Energy Studies  
Simulation Studies  
Food Processing and Product Development  
Waste Utilisation

Food Dehydration  
Food Safety  
Post-Harvest Technology  
Heavy Oil and Oil recovery from Trinidad Tar Sands  
Reservoir Characterisation with Nanotechnology Application  
Natural Gas Hydrates  
CO<sub>2</sub> EOR and Sequestration  
Drilling Engineering  
Rock Mechanics  
Seismic studies, Palaeontology, Biostratigraphy, Sedimentology and Geochemistry

## CURRENT MEMBERS OF ACADEMIC STAFF

|                                                                                                                                                                     |                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hosein, Raffie</b><br>Head of Department and<br>Coordinator of MSc Reservoir<br>Engineering Programme<br>(Petroleum and Reservoir<br>Engineering)                | BSc (Pet. Eng.), MPhil (Pet. Eng.), PhD<br>(Pet. Eng.) (UWI), CEng MEI Chartered<br>Petroleum Engineer FIMMM, MSPEI                                    |
| <b>Blake, Oshaine</b><br>(Petroleum Geophysics)                                                                                                                     | BSc (UWI), PhD (Univ. Of Liverpool)                                                                                                                    |
| <b>Riverol, Carmen</b><br>(Process Design & Economics,<br>Process Control)                                                                                          | BSc, MSc (Chem Eng) (Simon<br>Bolivar),<br>PhD (Vigo)                                                                                                  |
| <b>Chakrabarti, Dhurjati Prasad</b><br>(Multi-phase Flow, Reaction<br>Engineering)                                                                                  | MChemE (UDCT, Mumbai), PhD (IIT,<br>Kharagpur)                                                                                                         |
| <b>Deo, Roger</b><br>(Loss Prevention & Risk, Particle<br>Technology)                                                                                               | BSc (Chem. Eng), PhD (Chem. Eng.)<br>(UWI)                                                                                                             |
| <b>Hassanali, Hamid</b><br>(Drilling & Completions,<br>Production Engineering)<br>(Petroleum and Reservoir<br>Engineering)                                          | BSc (Pet. Eng.), MSc (Pet. Eng.)<br>(UWI)                                                                                                              |
| <b>Janes, David</b><br>(Simulation, Automation,<br>Optimisation<br>Process Design)                                                                                  | BSc (Aston), PhD (Birmingham)                                                                                                                          |
| <b>Jupiter, Andrew</b><br>Coordinator of Petroleum                                                                                                                  | BSc (UWI), MSc (Penn State<br>University), FEI, FIMMM                                                                                                  |
|                                                                                                                                                                     | Studies Unit (PSU) and<br>Coordinator of MSc Petroleum<br>Engineering<br>(Petroleum Engineering,<br>Petroleum Taxation and<br>Contractual Arrangement) |
| <b>Lee, Therese</b><br>Instructor II                                                                                                                                | BSc & MPhil Chemical and Process<br>Eng (UWI), MSc (Uni. of<br>Manchester)                                                                             |
| <b>Maharaj, Sharad</b><br>(Separation Processes, Transport<br>Phenomena)                                                                                            | BSc (Chem. Eng) (UWI), PhD (Chem.<br>Eng.), (UWI)                                                                                                      |
| <b>Mujaffar, Saheeda</b><br>Coordinator of Food Science and<br>Technology Unit (FSTU)<br>(Food Process Engineering, Food<br>Dehydration, Postharvest<br>Technology) | BSc (Nat. Sci.), MPhil (Agri. Eng.),<br>PhD (Agri. Eng.) (UWI)                                                                                         |
| <b>Ramsook, Ryan</b><br>Coordinator of BSc Petroleum<br>Geoscience Programme<br>(Petroleum Geoscience)                                                              | BSc (Earth sciences), MPhil<br>(Geology),<br>PhD (Geology) (Mona, UWI), FGS                                                                            |
| <b>Smith, Jeffrey</b><br>(Reaction Engineering, Transport<br>Phenomena &<br>Computer-aided Engineering)                                                             | BSc (Chem. Eng.) (UWI), MASc<br>(Toronto), MAPETT, AMiChemE<br>PhD (Chem. Eng.), (UWI)                                                                 |
| <b>Sobers, Lorraine</b><br>(Carbon Storage, Enhanced Oil<br>Recovery)                                                                                               | BS (Chem. Eng.), MS (Pet. Eng.)<br>(Texas Tech University), PhD Pet.<br>Eng. (Imperial College)                                                        |
| <b>Ward, Keeran</b><br>(Biotechnology)                                                                                                                              | BSc (UWI), MSc (Imperial College),<br>PhD<br>(Imperial College)                                                                                        |
| <b>Professors Emeritus</b>                                                                                                                                          |                                                                                                                                                        |
| <b>Dawe, Richard</b><br>(Reservoir Engineering,<br>Hydrocarbon Thermodynamics,<br>Improved Oil Recovery)                                                            | BA, MA, DPhil (Oxford), Eur Eng,<br>CEng, CSc, CGeol, FEI, CChem, FRSC,<br>FGS                                                                         |
| <b>McGaw, David R.</b><br>(Separation Processes, Particle<br>Technology)                                                                                            | BSc, MSc (Wales), PhD (UWI),<br>FICHEM, CEng, MAiChemE,<br>MAPETT                                                                                      |
| <b>Mellowes, Winston A.</b>                                                                                                                                         | BSc (Eng), MSc, PhD (UWI),                                                                                                                             |

(Transport Phenomena, Sugar  
Technology, Biomass  
Utilisations)

MIChemE, CEng, MAICHEM, MCIC,  
FAPETT, REng

## DUTIES OF THE APPOINTEE

The successful applicant will be responsible for the following duties:

- Advising student projects
- Developing and supporting teaching, research and outreach in the Petroleum Studies Unit
- Training and researching activities aligned with the needs of the national and regional oil and gas industry

### Personal Attributes

The Department places high priority on individuals who can work well in a team 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 able to:

- interact positively with academic and support staff within the Department and the University as well as interface with the oil and gas industry
- independently develop his/her own R&D programme

## REMUNERATION PACKAGE

### ANNUAL SALARY RANGE:

**Lecturer - TT\$239,544.00 – TT\$333,456.00**

**(US\$1.00 = TT\$6.79)**

### BENEFITS:

- Special allowance of 6% of basic salary;
- Transportation Allowance of TT\$3,250 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 per annum
- Contributory Health Insurance – 50%
- Group Life Insurance Scheme

The Registry  
St. Augustine  
2018 March  
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