



**THE UNIVERSITY OF THE WEST INDIES  
CAVE HILL CAMPUS**

---

---

**APPLICATION PACK**

---

---

**LECTURER/ASSISTANT LECTURER IN  
RENEWABLE ENERGY  
DEPARTMENT OF COMPUTER SCIENCE, MATHEMATICS AND PHYSICS  
FACULTY OF PURE & APPLIED SCIENCES**

**RENEWGY/04/09**

Contents:

1. Notes including application procedure
2. Advertisement
3. Further details of the post
4. Summary of Terms and Conditions of Service –  
Academic Staff
5. Job Application form

---

---

**NOTES – please read carefully before completing the application form**

---

---

Thank you for your enquiry regarding a post at the University of the West Indies, Cave Hill Campus. Enclosed is an application form and a set of further particulars for this post.

**Application procedure:**

**Should you wish to apply for this position, please send a completed application form to:**  
(You may include a CV as well, but not in place of the application form):

**The Senior Assistant Registrar (Staff), The University of the West Indies, Cave Hill Campus,  
P.O. Box 64, Bridgetown BB11000, Barbados.**

Please note that a hard copy of your application is required. Only signed applications will be considered. Please ensure that you quote reference number **RENEWGY/04/09** on all correspondence.

For an informal discussion of the post please contact The Human Resources Department by email, [humanresources@cavehill.uwi.edu](mailto:humanresources@cavehill.uwi.edu).

**Closing Date: MAY 31, 2009**

We will inform you of the outcome of your application as soon as possible.



## THE UNIVERSITY OF THE WEST INDIES CAVE HILL CAMPUS

Applications are invited from suitably qualified persons for the following post at the University of the West Indies:

### **Lecturer/Assistant Lecturer in Renewable Energy**

The successful applicant should possess a first degree and PhD in Engineering, Physics or a related science.

The successful applicant will teach courses in Renewable Energy Resources as well as develop and teach courses in their specific area of expertise. Preference will be given to applicants whose area of specialisation is of particular relevance to the Caribbean, such as solar, wind, geothermal or wave energy technologies or future fuel research.

The appointee will be expected to develop collaborative teaching and research within the Faculty and should possess university, or other tertiary level, teaching and research experience in Renewable Energy Technologies, and evidence of publication. He/She will be expected to develop an active research programme of relevance to the region, and supervise graduate students registered for M.Phil. and Ph.D. degrees. There will also be the opportunity to develop advanced level or postgraduate courses in areas of special expertise.

*The successful applicant will be expected to assume duties as soon as possible.*

Detailed applications (two copies) giving full particulars of qualifications and experience, biodata and the names, addresses (including email) and telephone numbers of three (3) referees (one of whom should be from your present organization) should be sent as soon as possible to **The Senior Assistant Registrar (Staff), University of the West Indies, P.O. Box 64, Bridgetown, Barbados.** Fax (246) 417-0330; Email: [humanresources@cavehill.uwi.edu](mailto:humanresources@cavehill.uwi.edu). A Job Application Pack is available from our website: [www.cavehill.uwi.edu](http://www.cavehill.uwi.edu).

**The closing date for applications is MAY 31, 2009**



## THE UNIVERSITY OF THE WEST INDIES

### CAVE HILL CAMPUS

#### 1. BACKGROUND

The Faculty of Pure and Applied Sciences at the Cave Hill Campus of the University of the West Indies is developing an inter-disciplinary programme in Earth Sciences. Initially, this is being offered as elective courses for all Science majors, with a major and minor in Earth Sciences under development and soon to be instituted within the B.Sc. programme. Three lectureships – Atmospheric Science, Geology, Renewable Energy have been funded to contribute to the teaching of this programme. The Lecturership in Renewable Energy is the only unfilled post of the three and is assigned to the Department of Computer Science, Mathematics and Physics.

#### 2. STAFF

The academic staff in the Department of Computer Science, Mathematics and Physics is an amalgamation of the staff in the former Departments of Mathematics and Computer Science and of Physics following the merger of these two Departments in August, 1996. The names of the permanent staff in the Department are:

**Head of Department:** Peter Gibbs, B.Sc. (UWI), M.Sc. Guelph, Dip. Ed. (UWI)

**Professors:** Pranay Chaudhuri, B.Sc., B.Tech. (Calcutta), M.E., Ph.D. (Jadavpur)

Smail Mahdi, B.Sc., M.Sc. (Constantine), Ph.D. (Montreal)

Leo Moseley, B.Sc., M.Sc. (UWI), Ph.D. (Wales)

Upindranath Singh, B.Sc, M.Phil. (UWI), M.Sc., Ph.D. (Delaware)

**Senior Lecturers:** John Charlery, B.Sc. (UWI), Dip. Tropical Met. (Miami), Adv. Dip. (Comp. Sci.), M.Phil., Ph.D. (UWI)

Hugh Millington, B.Sc. (UWI), Ph.D. UBC, Dr. Habile (Germany)

Hadrian Peter, B.Sc., M.Sc. (UWI), M.Sc. (Comp. Sci.) (Ohio), Ph.D. (UWI)

Tane Ray, B.Sc. (Ill), Ph.D. (Boston)

Yefim Schwartzman, M.A., Ph.D. (Voronezh)

Janak Sodha, B.Sc, M.Phil. Ph.D. (Manchester)

**Lecturers:**

Adrian Als, B.Sc., M.Phil. (UWI), Ph.D. (U.K.)

Sujit Bag, B.Tech. (Hons.) (India), Ph.D., (U.K.), FIE (India), FISTE (India), C.Eng. (India)

Peter Chami, B.Sc. Ph.D. (UWI) FRSS (London)

Dwaine Clarke, B.Sc., M.Eng, Ph.D. (MIT)

Colin Depradine B.Eng. UCL, M.Sc. ICL. Ph.D. (UWI)

Thomas Edward, B.Sc., (UWI), Ph.D. (UWI)

Jeffrey Elcock, B.Sc., (UWI), M.Sc., (Oxford), Ph.D. (UWI)

Jonathan Funk, B.Sc., M.Sc., (Saskatchewan), Ph.D. (McGill)

Curtis Gittens, B.Sc. (UWI)., Ph.D. (Western Ontario)

Mechelle Gittens, B.Sc. (UWI)., Ph.D. (Western Ontario)

Carlos Hunte, B.Sc., M.Phil., Ph.D. (UWI)

Hussein Thompson, B.Sc., Ph.D. (UWI)

Paul Walcott, B.Sc., M.Phil, (UWI), Ph.D., (City Univ.)

**Temporary Lecturer:** Hugh Atherley, B.Sc., M.Phil. (UWI)

### **3. COMPUTER FACILITIES**

#### **Hardware**

The Department administers a Computational Physics Laboratory which has a UNIX network comprising a server, several Sun Ultra workstations and a Cray CX1 with 4 CPU nodes. Also one Teaching Lab with 28 SunRay networked workstations. Additionally, the campus has a number of network clusters at present managed by the Campus Computer Centre. Along with these networks, the other major computer systems are:

- PC laboratories each containing 32 PCs,
- 1 Mac laboratory,

- online library facilities over the campus network
- each laboratory contains printing facilities,
- T1 Internet access from each lab

Email and Internet connections are available.

### **Software:**

Several computer languages are in use, namely, C, C++, Turbo C, Visual.NET, Java, Turbo Pascal, Fortran. Other software packages include Microsoft Office, Sigma Plot Minitab Statistical Package; Fortran 77/90, Gauss, Maple, Matlab, PVM, Chem Draw and Chem Windows, DPSS, 4GL's Oracle, Banner, Peoplesoft, Lisp, Prologue, Ada.

### **Library Facilities**

The University Library contains several volumes of texts in Computer Science, Mathematics, Physics and related fields together with a number of journals. Literature searches and intercampus loans of books are easily arranged.

## **4. VACANT POSITION**

The applicant should have a first degree and PhD in Engineering, Physics or a relevant science along with university, or other tertiary level, teaching and research experience in Renewable Energy Technologies. Some industrial experience would also be advantageous.

The successful applicant will teach a new course, ERSC2004 Renewable Energy Sources (see below), as part of the Earth Sciences programme, as well as develop and teach two advanced courses in their specific area of expertise. Preference will be given to applicants whose area of specialization is of particular relevance to the Caribbean, such as solar, wind, wave and geothermal energy technologies or future fuel research.

The appointee will be a member of the Department of Computer Science, Mathematics & Physics but will contribute to the Earth Sciences programme which is a multidisciplinary Faculty programme. He/she will be expected to develop collaborative teaching and research within the Faculty. Duties will include supervision of graduate students registered for M.Phil. and Ph.D. degrees and there will also be the opportunity to develop specialised and postgraduate courses in the appointee's area of special expertise.

### **ERSC2004: Renewable Energy Sources**

**Pre-requisites:** 16 Level 1 FPAS credits; available only to FPAS students

**Syllabus:** Current and future energy generation systems. Resources, extraction, conversion, and end-use, with emphasis on meeting regional and global energy needs in the 21st century in a sustainable manner. Aspects of energy production and consumption. Patterns of national,

regional and global energy patterns of supply and utilization. Environmental effects of energy and the energy-prosperity-environmental dilemma. Mathematical representations of sustainability. Allowability, efficiency, and production rates of different renewable energy sources - solar energy, wind energy, tidal power, wave energy, geothermal energy, hydroelectricity, and bioenergy. Energy systems and sustainability systems in the renewable energy context. Major economic issues of production, storage, transportation, and distribution of energy.

**Teaching:** Two hours of lecture, one hour of tutorial, and three hours of project work per week.

**Method of Assessment:**

Final Examination:	50%
Project:	25%
In-course Test(s):	25%

---

---

## SUMMARY OF TERMS AND CONDITIONS OF SERVICE - ACADEMIC STAFF

---

---

Posts - Lecturer/Assistant Lecturer in Renewable Energy

**Note: This is a tenure track position and the appointee may continue in the service of the University, by mutual consent, until the retiring age of 65 years.**

Initial appointment will be on contract for a period of three years in the first instance.

- (a) **Salary Scales** – the salary scales accord with the level at which the appointments are made. Salary scale and point of entry will depend on the qualifications and experience of the successful candidate.

**Lecturer:**

BDS\$78,480 x 3,180 - 97,560 (**Bar**) x 3,180 - 116,640 per annum

**Assistant Lecturer:**

BDS\$66,660 x 2,880 – 72,420 per annum

**Note: these are graduated scales that progress from the minimum point to the top of the scale by annual increments except where a merit bar requires formal assessment before crossing. For example the scale for Lecturer runs as follows:**

Minimum point	78,480
2 <sup>nd</sup> point	81,660 (78,480 + 3,180)
3 <sup>rd</sup> point	84,840 (71,280 + 3,180)

(b) **Allowances**

- *Housing Allowance* - 20% of basic salary

(c) **Benefits**

- *Transportation Allowance* - BDS\$2400 per annum
- *Book Grant* - \$3000 per annum
- *Study and Travel Grant* – BDS\$9,673 per annum (special conditions apply)
- *Registration in Medical Scheme* (currently non-contributory)

(d) **Pension Arrangements**

Each full time employee is required to contribute to the University Pension Scheme (FSSU). The contribution rates are Employee 5%, UWI 10%. The sums are invested to provide a pension at age 65, the age of retirement.

Staff leaving the University of the West Indies before retirement can, at the moment, withdraw from the scheme and receive any benefits accrued at that time.

(e) **Other**

**For persons recruited from overseas:**

- *Airfares* - economy class passages (self, spouse and up to three dependent children under 22 years of age) on appointment and normal termination
- *Shipping of household and personal effects* – up to US\$1,800 on appointment and normal termination.
- *Shipment of academic books/teaching research equipment* - up to US\$600 on appointment and normal termination.

The Registry  
Cave Hill Campus  
April 2009

---



**UNIVERSITY OF THE WEST INDIES**  
**CAVE HILL CAMPUS, BARBADOS**

**JOB APPLICATION FORM**

**ACADEMIC SENIOR ADMINISTRATIVE & PROFESSIONAL STAFF**

**(PLEASE TYPE OR PRINT CLEARLY IN BLOCK CAPITALS)**

**POST (LEVEL & TITLE)** .....

**FULL NAME** .....

*(Surname)*

*(First)*

*(Middle)*

**PRESENT ADDRESS** .....

**FORWARDING ADDRESS**

*(if a move is proposed within 6 months)* .....

**SEX** .....

**MARITAL STATUS** .....

**DATE & EXACT PLACE OF BIRTH** .....

**NO. OF CHILDREN** .....

**NATIONALITY** .....

**AGES OF CHILDREN** .....

**CITIZENSHIP AND/OR**

**RESIDENT STATUS** .....

**TELEPHONE** .....

**FAX NO.** .....

**E-MAIL ADDRESS** .....

**QUALIFICATIONS**

*(Please state Universities attended, dates of attendance, date of degrees awarded and class thereof)*

.....

.....

.....

.....

.....

**EMPLOYMENT HISTORY**

EMPLOYERS AND LOCATION	DATES OF EMPLOYMENT		NATURE OF EMPLOYMENT
	FROM	TO	

*Employment History.....*

**EMPLOYMENT HISTORY CONT'D**

EMPLOYERS AND LOCATION	DATES OF EMPLOYMENT		NATURE OF EMPLOYMENT
	FROM	TO	

**PRESENT SALARY:** \_\_\_\_\_

**PUBLICATIONS:** *(Please use separate sheet)*

**REFEREES:** Three references are required. If your first and higher degrees were obtained from different Universities, please name a referee from each University. One referee should be a member of your present organization. Please give Fax No. and E-mail addresses.

NAMES	PROFESSIONAL POSITION	ADDRESS, EMAIL & FAX

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*Additional information may be provided along with this form if the applicant so wishes.*

**MISCELLANEOUS:** *(For overseas applicants only)*

Passport No.: \_\_\_\_\_ Date and Place of issue: \_\_\_\_\_

Nationality of members of family who would accompany applicant (if not the same as applicant's)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_