



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

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**APPLICATION PACK**

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**PROFESSOR/SENIOR LECTURER IN COMPUTER SCIENCE  
DEPARTMENT OF COMPUTER SCIENCE, MATHEMATICS & PHYSICS  
FACULTY OF PURE & APPLIED SCIENCES  
COMPSCI 05/09**

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

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

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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 COMPSCI 05/09 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: JUNE 19, 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 post of **Professor/Senior Lecturer of Computer Science** in the Department of Computer Science, Mathematics and Physics, at the University of the West Indies, Cave Hill Campus, Barbados.

Applicants for this post should possess:

- An earned Ph.D. degree in Computer Science or a closely related field;
- Demonstrable ability to teach effectively at both graduate and undergraduate levels;
- Excellent oral and written communication skills;
- A strong commitment to the importance and contribution of diversity in the Caribbean multi-cultural educational environment;
- An understanding of and commitment to the role of the University in the economic development of the region and the contribution of the University to the world innovation stage.

The successful candidate must have an outstanding international reputation for excellence in scholarly research and will assume a leadership role in the department to strengthen and expand the Computer Science Discipline's research and teaching mission. We seek an individual who will inspire exceptional graduate students, maintain and promote support for a vigorous research programme, develop new initiatives, serve as a standard for excellence in scholarly activity and excellence in teaching, be a mentor for current and future faculty, and collaborate with faculty and students in interdisciplinary educational and research programmes in Computer Science and Information Technology.

**The successful applicant will be expected to assume duties by August 1, 2009 or as soon as possible thereafter.**

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 JUNE 19, 2009**



# THE UNIVERSITY OF THE WEST INDIES

## CAVE HILL CAMPUS

### FURTHER PARTICULARS FOR THE POST OF PROFESSOR IN COMPUTER SCIENCE

#### 1. BACKGROUND

The Department of Computer Science, Mathematics and Physics (CMP) at the Cave Hill campus is a growing department with a dynamic staff of internationally and regionally educated academics focussed on enhancing the student experience through excellence in teaching and developing the university's contribution to innovations in Technology, Mathematics, Statistics, Physics and Electronics with numerous publications at international research forums. The department offers M.Phil and Ph.D degrees in Computer Science and MSc. degrees in E-Commerce.

#### 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:

<b>Head of Department:</b>	Peter Gibbs, B.Sc. (UWI), M.Sc. Guelph, Dip. Ed. (UWI)
<b>Professors:</b>	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)
<b>Senior Lecturers:</b>	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)

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

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)

## **2. TEACHING**

**Undergraduate:** Students are registered in the B.Sc. Degree programme of the Faculty of Pure and Applied Sciences which comprises the Department of Biological and Chemical Sciences and the Department of Computer Science, Mathematics and Physics. This Faculty also collaborates with the Caribbean Institute of Meteorology and Hydrology in offering a programme in Meteorology. The Department administers Joint Majors with the Faculty of Social Sciences in Computer Science(or Information Technology)/Accounting and Computer Science(or Information Technology)/Management.

**Postgraduate:** Studies leading to the M.Phil and Ph.D. degrees in each discipline administered by the Department are also offered. The Department currently offers a M.Sc. in Electronic Commerce, is also poised to extend postgraduate training leading to the M.Sc. degrees in Computer Science and Information Technology.

### **Courses Offered**

Level I	COMP1005	Computer Applications
	COMP1105	Computer Programming I
	COMP1115	Computer Programming II
	COMP1130	Web Technology Fundamentals
Level II	COMP2105	Discrete Mathematics
	COMP2115	Information Structures
	COMP2125	Computer Architecture
	COMP2135	Systems Software
	COMP2145	Software Engineering I
	COMP2150	Computer Networks I
	COMP2160	Object-Oriented Programming
Level III	COMP3100	Operating Systems
	COMP3115	Information Systems
	COMP3125	Artificial Intelligence
	COMP3135	Programming Languages
	COMP3140	Software Engineering II
	COMP3155	Computer Networks II
	COMP3160	Database Management Systems
	COMP3170	Web-based Applications
	COMP3180	Algorithm Design and Analysis
	COMP3190	Special Topics in Computer Science
	COMP3200	Compiler Theory
	COMP3210	Electronic Commerce
	COMP3220	Human-Computer Interaction
	COMP3230	Network and Computer Security
	COMP3240	Introduction to Distributed Computing
	COMP3260	Computer Graphics I
COMP3910	Computer Science Research Project	

The FTE for the Department in the 2007/2008 academic year was approximately 419 with an establishment of twenty five (25) full time (tenure-track) academic positions.

### **Research Specialisation**

The areas of research specialisation of the current academic staff in Computer Science include: Artificial Intelligence, Computer Visualization, Programming Languages, Distributed Systems, Electronic Commerce, Databases, Signal Processing, Self Stabilizing Algorithms, and Software Engineering. The University encourages and supports the ongoing collaborations with colleagues at the University of the West Indies and internationally.

## 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 CPU nodes. It also has 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:

- 7 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.

## 3. VACANT POST

Area of Specialisation: AI, Computer Networks, Databases, Distributed/Grid Computing, Electronic Commerce, Internet Technologies, Operating Systems and Programming Languages

Applicants for this post should possess a Ph.D. in Computer Science or a closely related area. Strong commitment to both research and teaching is required. Outstanding candidates in any area of Computer Science will be considered. However, preference will be given to applicants with interest in one or more of the above mentioned areas. Successful candidates will be required to teach and supervise both undergraduate and postgraduate students in Computer Science.

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

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Post – Professor/Senior Lecturer in Computer Science

**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.

**Professor:**

BDS\$144,240 – 177,780 per annum

**Senior Lecturer:**

BDS\$103,920 x 3,180 – 133,620 (Bar) x 3,180 -140,700 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 Senior Lecturer runs as follows:**

Minimum point	103,920
2 <sup>nd</sup> point	107,100 (103,920 + 3,180)
3 <sup>rd</sup> point	110,280 (107,100 + 3,180)
Etc	

- (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  
May 2009

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**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)*

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**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. \_\_\_\_\_