



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

APPLICATION PACK

**Department of Computer Science, Mathematics & Physics
Faculty of Science & Technology**

**Post
Lecturer/Senior Lecturer in Computer Science**

**Reference No.
LSLCS/11/21**

Contents:

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

NB: The application form is available on our website: <http://www.cavehill.uwi.edu/hr/careers.aspx>

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.

Application procedure:

Should you wish to apply for this position, please send a completed application form to:

The Assistant Registrar, Human Resources, The University of the West Indies, Cave Hill Campus, P.O. Box 64, Bridgetown BB11000, Barbados.

Only signed and completed applications will be considered. Please ensure that you quote reference number **LSLCS/11/21** on all correspondence

1. A complete application includes;
 - a. Cover letter and completed application form;
 - b. Research Agenda (two pages);
 - c. Statement of teaching philosophy (two pages);
 - d. Supporting documents;
 - i. Transcripts from degree granting institutions;
 - ii. Updated curriculum vitae;
 - iii. List of publications (where necessary).
 - e. Three (3) references

Any application that is incomplete after the deadline will not be considered.

For an informal discussion of the post please contact The Human Resources Section by email, humanresources@cavehill.uwi.edu.

Closing Date: December 13, 2021

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 to fill the post of Lecturer/Senior Lecturer in Computer Science in the Department of Computer Science, Mathematics & Physics (CMP), Faculty of Science & Technology, The University of the West Indies, Cave Hill Campus, Barbados:

GENERAL DESCRIPTION

The successful candidate should have at least a PhD degree in Computer Science or other related ICT discipline from a recognized and accredited university; be flexible and be able to teach various courses in Computer Science. A strong commitment to both research in their areas of expertise and teaching is a requirement. The candidate is also expected to participate in department and university activities.

Areas of particular interest for potential candidates are Blockchain Technologies, Artificial Intelligence, Machine Learning, Data Analytics and Software Engineering. However, outstanding candidates in any area of Computer Science will be considered.

Candidates for the position of Lecturer must show strong potential for independent research and experience in teaching. At the Senior Lecturer Level, candidates must have a proven record of accomplishment in publication, successful postgraduate supervision, and leadership. Senior Lecturers are also expected to offer mentorship to junior faculty within the department and should show evidence of mentoring in previous roles. The successful candidate for the post is required to teach at all levels of the Computer Science, Information Technology and Software Engineering programmes; and may be asked to assist with coordination of our programmes with the disciplines.

The successful applicant will be expected to assume duties by **August 1, 2022** or as soon as possible thereafter.

Detailed application giving full particulars of qualifications, experience and biodata and **three (3) signed up-to-date referee reports** should be sent as soon as possible to **The Assistant Registrar (Human Resources), The University of the West Indies, P.O. Box 64, Bridgetown, Barbados.** Email: humanresources@cavehill.uwi.edu. If your first and higher degrees were obtained from different Universities, please provide a referee report from each University and one referee should be a member of your present organization. A Job Application Pack is available from our website: www.cavehill.uwi.edu/hr/careers.aspx.

The closing date for completed applications (Application Form, CV, referee reports and degree transcripts) is **December 13, 2021**.



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

**FURTHER PARTICULARS FOR THE POSTS OF
LECTURER/SENIOR LECTURER IN COMPUTER SCIENCE**

INTRODUCTION

This document provides a general overview of the Department of Computer Science, Mathematics and Physics. It is meant to provide the prospective applicant with just enough information to glean a sense of what the Department is like and how it fits into the grand structure of the University.

OVERVIEW

The Department of Computer Science Mathematics and Physics (CMP) is one of two Departments in the Faculty of Science and Technology. The other is the Department of Biological and Chemical Science. The disciplines administered by the Department are Computer Science, Mathematics, Physics and Electronics.

STAFF

The names of the permanent staff in CMP are given below.

Department Office	E-Mail: cmp@cavehill.uwi.edu	Tel: 417-4365 Fax: 438-9198
Head of Department / Senior Lecturer in Computer Science	Mechelle Gittens BSc (UWI), MSc, PhD (W. Ont.)	417-4366
Administrative Assistant	Wavney Weekes BSc (UWI)	417-4365
Stenographer/Clerk	Geniveve Harris	417-4364
Stenographer/Clerk	Angella Blades	417-4943
Senior Lecturer (CS)	John Charlery BSc (UWI), Dip. Trop. Met. (Miami) Adv. Dip. (Comp. Sci), MPhil, PhD (UWI)	417-4363
Senior Lecturer (CS)	Dwaine Clarke SB, MEng, PhD (MIT)	417-4333
Senior Lecturer (CS)	Colin Depradine BEng. (UCL), MSc (ICL), PhD (UWI)	417-4375
Lecturer (CS)	Adrian Als BSc, MPhil (UWI), PhD (Sheffield Hallam)	417-4793

Lecturer (CS)	Thomas Edward BSc, PhD (UWI)	417-4029
Lecturer (CS)	Jeffery Elcock BSc (UWI), MSc. (Oxon.) Ph.D. (UWI)	417-4371
Lecturer (CS)	Curtis Gittens BSc (UWI), MSc, PhD (W.Ont.)	417-4473
Lecturer (CS)	Paul Walcott BSc, MPhil (UWI), PhD (City)	417-4372
Professor of Theoretical Physics	Tane Ray BSc, (Illinois), PhD (Boston)	417-4377
Senior Lecturer in Physics	Sodha, Janak BSc, MSc, PhD (Manch.)	
Senior Lecturer in Physics	Carlos Hunte BSc, MPhil., PhD (UWI)	417-4382
Lecturer (Renewable Energy)	Legena Henry BSc (Howard), SM (MIT), PhD (UWI)	417-4158 20
Lecturer (Electronics)	Ramon Sargeant BSc, MPhil (UWI), MSc, PhD (King's Col)	417-4374
Senior Lecturer (Mathematics)	Peter Chami BSc, PhD (UWI)	417-4369
Senior Lecturer (Mathematics)	Bernd Sing Dipl.-Phys. (Tübingen), PhD (Bielefeld)	417-4737

Emeritus Professors		
Emeritus Professor of Condensed Matter Physics	Upindranath Singh BSc, MPhil. (UWI) MSc, PhD (Delaware)	
Emeritus Professor of Physics	L. Leo Moseley BSc, MSc (UWI), PhD (Wales)	417-4373

VACANT POST - LECTURER/SENIOR LECTURER IN COMPUTER SCIENCE

AREAS OF SPECIALIZATION OF COMPUTER SCIENCE STAFF

Artificial Intelligence, Cognitive Systems, Computer Networks, Computer Security, Gaming, Operating Systems, Web-Based Applications, Pervasive Systems, Programming Languages and Distributed Systems, Smart Cities and IoT, Software Engineering, Visualization. For more information, see <https://www.cavehill.uwi.edu/fst/cmp/home.aspx>. Areas of particular interest for potential candidates are Blockchain Technologies, Artificial Intelligence, Machine Learning and Data Analytics and Software Engineering. However, outstanding candidates in any area of Computer Science will be considered.

The successful candidate should be flexible and be able to teach various courses in Computer Science. A strong commitment to both research and teaching is a requirement. Candidates for the position of Lecturer must show strong potential for research and experience in teaching. At the Senior Lecturer Level, candidates must have a proven record of accomplishment in publication, postgraduate supervision and leadership. The successful candidate for the post is required to teach at all levels of the Computer Science, Information Technology and Software Engineering programmes.

QUALIFICATIONS & EXPERIENCE

- Required:
 - At least a PhD degree in Computer Science or other related ICT discipline from a recognized and accredited university.
- The following will be considered as additional assets
 - Industry recognized certification any areas of software application development or systems analysis from a recognized training institution.
 - Industrial experience in a computing related field.
 - Certificate or diploma in teaching.

PERSONAL ATTRIBUTES

The successful candidate should:

- Have an appreciation for the regional character of the university and a commitment to its continued development as an institution with regional responsibilities;
- Be detail-oriented with the ability to work effectively without supervision;
- Promote the student-centered approach to pedagogy;
- Can work effectively as a member of a team;
- Be dedicated to personal and professional development with the ability to demonstrate leadership and produce outstanding results.
- Show the potential for mentorship of junior academic staff; and the ability to take on leadership roles within the department (in the case of applicants for the Senior Lecturer position)

TEACHING

Undergraduate

Students are registered in various BSc Degree programs in the Faculty of Science and Technology in one of the two Departments. In the CS Discipline, we offer majors in Computer Science and Information Technology, and have added a major in software Engineering which should start during the next academic year. We collaborate with the other sister Campuses and China to offer a major in Software Engineering, the first two years which are spent in the Caribbean and the last two in China.

The Faculty also collaborates with the Caribbean Institute of Meteorology and Hydrology (CIMH) in offering a BSc. programmes in Meteorology. The Departments administers joint majors with the Faculty of Social Sciences in Computer Science (or Information Technology) and Accounting or Management amongst others.

Postgraduate

M.Phil and Ph.D. degrees in each discipline administered by the Department are also offered. The Department also offers an MSc in Information Technology,

COURSES OFFERED IN COMPUTER SCIENCE

Level 1

COMP1170 Entrepreneurship for Computer Scientists
COMP1180 Mathematics for Computer Science I
COMP1205 Computing I
COMP1210 Computing II
COMP1215 UNIX

Level 2

COMP2210 Mathematics for Computer Science II
COMP2220 Computer System Architecture
COMP2225 Software Engineering
COMP2232 Object-Oriented Programming Concepts COMP2235 Networks I
COMP2611 Data Structures
COMP2245 Web Development Concepts, Tools and Practices
COMP2410 Computing in the Digital Age
COMP2415 Information Technology Engineering
COMP2950 Computer Science Elective

Level 3

COMP3310 Algorithms
COMP3320 Design Principles of Operating Systems
COMP330 Database Management Systems I
COMP3360 Networks II
COMP3365 Networks III
COMP3370 Software Engineering On A Large Scale
COMP3375 Software Testing and Quality
COMP3385 Framework Design for Advanced Web Development
COMP3412 Scalable Enterprise Web Applications

COMP3415 Database Management Systems II
COMP3420 Computer Graphics
COMP3425 Mobile Applications for iOS Devices
COMP3435 User-Interface Design
COMP3440 E-Commerce
COMP3445 Computer Information Systems
COMP3450 Fundamentals of Artificial Intelligence
COMP3490 Research Project in Computer Science
COMP3495 Major Research Project in Computer Science (6 Credits)
COMP3499 Group Research Project in Computer Science

Major in Software Engineering (*UWICIT*)

LEVEL I (30 Credits)

SWEN1000 An Introduction to Computing I
SWEN1001 An Introduction to Object Oriented Programming
SWEN1002 Computing in Society
SWEN1003 Current and Future Trends in Computing for Software Engineers
SWEN1004 Mathematics for Software Engineers
SWEN1005 Mobile Web Programming
SWEN1006 Research Methods for Software Engineers
SWEN1007 Software Engineering Essentials
SWEN1008 Technical Writing for Software Engineers
SWEN1009 An Introduction to Computing II

LEVEL II (36 Credits)

SWEN2000 An Introduction to Requirements Engineering
SWEN2001 An Introduction to Software Engineering
SWEN2002 An Introduction to the Analysis of Algorithms
SWEN 2003 Computer Networking & Security
SWEN2004 Computer Organization
SWEN2005 Database Systems
SWEN2006 Discrete Mathematics for Software Engineers
SWEN2007 Object Oriented Design and Implementation
SWEN 2011 Chinese Language & IT

Levels 3 and 4 taken in China at the Global Institute of Software Technology (GIST) in Suzhou, China which is a part of The UWI-China Institute of Information Technology (UWI-CIIT).

COMPUTER FACILITIES

A brief overview of the hardware and software facilities is provided below.

Hardware

The Department has access to eight computer labs, which are labeled as MicroLab 1 -6, administered by CITS and CSL1 and CSL2 administered by the Department. There is also an E-commerce Lab and an Embedded Physics Lab. There are a number of smaller labs administered by various staff members to facilitate their research.

The lab contains mainly PCs with the exception of the Ecommerce lab which is equipped with Macs. Labs may have up to 36 machines for use by students.

Software

Several computer languages are in use and include, but are not limited to, C, C++, Java, UNIX, Python, HTML, CSS and Apache. Other available software solutions include MS Office 365, SPSS, Lisp, Ada, and Matlab.

LIBRARY FACILITIES

The University Library contains several volumes of texts in Computer Science and related subscriptions for access to several journals including those available from ACM and other repositories in digital format. Inter-campus loans of books and journal paper can be easily arranged.

SUMMARY OF TERMS AND CONDITIONS OF SERVICE - ACADEMIC STAFF

Lecturer/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.

Lecturer (Non-Medical)

BDS\$94,968 + 3,852 – 118,080 (**BAR**) + 3,852 – 141,192 per annum

Senior Lecturer Scale (Non-Medical)

BDS\$145,044 + 3,852 – 148,896 + 4,284 – 183,168 (**BAR**) x 4,572 – 192,312 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 (Non-Medical) runs as follows:

Minimum point	\$94,968
2 nd point	\$98,820 (94,968 + 3852)
3 rd point	\$102,672 (98,820 + 3852)
Etc.	

(b) **Allowances**

- Regional Allowance – 5% of basic salary
- *Housing Allowance* - 20% of basic salary

(c) **Benefits**

- *Transportation Allowance* - BDS\$2760 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.

(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\$3,000 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
November 2021
62-8-6
