

SENIOR SCIENTIFIC OFFICER

Department of Computer Science

Faculty of Science

The Department of Computer Science is looking for a Senior Scientific Officer, for appointment as soon as possible, for technical assistance with preparation and support of undergraduate practicals. The successful applicant will report to the Head of Department (or nominee) and will assist the academic staff of the department with practicals and practical assessment. The workplace is a stimulating environment, which will expose the candidate to some of the latest ICT technologies.

The Computer Science Department runs Windows and Linux desktops, and has senior undergraduate laboratories of over 100 workstations.

Requirements:

- A post-graduate degree in Computer Science
- At least 2 years' post-Honours work experience in the computing field, or else a Master's or PhD degree in Computer Science
- Ability to program in a number of computing paradigms, including a modern object-oriented programming language, and the ability to learn new ones
- Ability to work largely unsupervised and to liaise with academics and students as regards computer science practicals

Responsibilities include, but are not restricted to:

- Implementation of software components required for practicals
- Creation of test data sets, databases, etc. required by practicals
- Programming model solutions
- Documenting departmental systems
- Reviewing and updating practical manuals
- Setting up marking scripts on the computer-based marking system for practical work
- Setting up and running practical tests
- Assisting with computer laboratory tutorials and practical queries
- Tutor and teaching assistant training and management
- Scheduling and co-ordination of laboratory use.

The annual remuneration package, including benefits, is between R 355 670 and R418 435.

To apply, please e-mail the below documents in a single pdf file to recruitment04@uct.ac.za

- UCT Application Form (download at <u>http://forms.uct.ac.za/hr201.doc</u>)
- A letter of motivation
- Curriculum Vitae (CV)

Please ensure the title and reference number are indicated in the subject line.

An application which does not comply with the above requirements will be regarded as incomplete. Only shortlisted candidates will be contacted and may be required to undergo a competency test.

Telephone:	021 650 5405	Website:	www.cs.uct.ac.za	
Reference:	E18321	Closing date:	07 September 2018	

UCT is committed to the pursuit of excellence, diversity and redress in achieving its equity targets. Our *Employment Equity Policy is available at <u>http://www.uct.ac.za/downloads/uct.ac.za/about/policies/eepolicy.pdf</u>.*

UCT reserves the right not to appoint



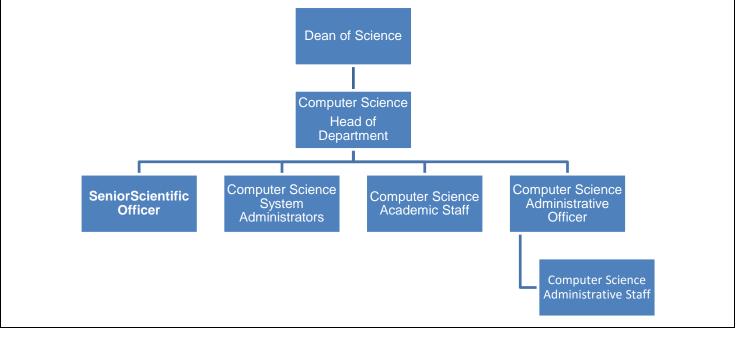
NOTES

- Forms must be downloaded from the UCT website: <u>http://www.uct.ac.za/depts/sapweb/forms/forms.htm</u>
- This form serves as a template for the writing of job descriptions.
- A copy of this form is kept by the line manager and the job holder.

Position title Senior Scientific Officer Job title (HR Practitioner to provide) Job grade (if known) PC 9 Academic faculty / PASS department Science Faculty Academic department / PASS unit Computer Science Department Division / section 11/11/2013

ORGANOGRAM

(Adjust as necessary. Include line manager, line manager's manager, all subordinates and colleagues. Include job grades)



PURPOSE

Computer Science practicals are a critical part of Computer Science qualifications, as a result of which every course has a practical sub-minimum requirement in order to pass the course. The main purpose of this position is to support our academic staff and students with practicals and practical assessments. The Scientific Officer will work closely with the academic staff in ensuring that Computer Science students gain the necessary practical experience expected of computing graduates.

JOB CONTENT % of time Key performance areas Activities / Objectives / Tasks **Results / Outcomes Competencies needed** (4 - 6) (What) spent (How) (Why) Implementation of software Practicals unambiguously Post-graduate degree in Computer Science • components required for specified, feasibility Ability to program in variety of computing • Preparation of practicals confirmed and model paradigms and ability to learn new ones Practicals Creation of test data sets, solution implemented Ability to work with different operating systems and 70% databases, etc. required by • Software components and computer systems practicals test data or databases Sufficiently assertive and with good communication ٠ created to save staff and Programming model skills as required to liaise with academic staff • 1 student time and ensure solutions Ability to prioritise conflicting demands and ٠ consistency of assessment Configuring and preparing negotiate solutions, and to take initiative in • the departmental • Automarker able to be planning ahead and ensuring systems are ready used correctly and Automarker system for and working on time effectively to give students practicals where appropriate immediate feedback on incorrect submissions Documenting departmental Staff and students have Post-graduate degree in Computer Science ٠ ٠ ٠ documentation of systems systems Ability to program in variety of computing 5% Documenting systems Documenting problems with and how they must be paradigms and ability to learn new ones practicals and their used 2 Ability to work with different operating systems and ٠ resolution Staff and students have • computer systems documentation of technical Reviewing and updating Ability to prioritise conflicting demands . . solutions to problems for practical manuals e.g. report writing, makefile usage, etc. use when problem recurs Troubleshooting problems Additional assistance Post-graduate degree in Computer Science • • during practicals available for students Ability to program in variety of computing Undergraduate 20% Assisting with computer lab during laboratory tutorials paradigms and ability to learn new ones ٠ Support and practicals, thus tutorials Ability to work with different operating systems and decreasing the number of Detecting and monitoring computer systems ٠ students per assistant practical problems and ٠ Good communication skills Staff timeously informed of 3 reporting to staff ٠ any problems with Answering student queries • practicals on practical specifications Tutor and teaching assistant ٠ training and management Scheduling and co-ordination ٠ of laboratory use.

4	Practical Assessment Assistance	5%	Configuring and executing plagiarism detection tools and reporting to staff	• Early and frequent detection of plagiarized code to eliminate copying	 Post-graduate degree in Computer Science Ability to program in variety of computing paradigms and ability to learn new ones Ability to work with different operating systems and computer systems Ability to prioritise conflicting demands and negotiate solutions, and to take initiative in planning ahead and ensuring systems are ready and working on time
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MINIMUM REQUIREMENTS

Minimum qualifications	Post-graduate degree in Computer Science
Minimum experience (type and years)	At least 2 years post-Honours experience in the computing field.

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