



POSITION DESCRIPTION

The University of Papua New Guinea

<u>DETAILS OF POSITION</u>	POSITION NO.: 121004
SCHOOL/OFFICE: SNPS	CLASSIFICATION: U04
DIVISION/STRAND: MSCS	POSITION TITLE: Lecturer/Senior Lecturer in Pure Mathematics
BRANCH: UPNG Waigani main campus	IMMEDIATE SUPERVISOR CLASSIFICATION & POSITION: Strand Leader, Mathematics, Statistics and Computer Science
SECTION: Academic	HIGHEST SUBORDINATE CLASSIFICATION & POSITION: Other PhD holders, Senior lecturers/lecturers in MSCS
LOCATION: Science III Building	

ROLES AND RESPONSIBILITIES OF POSITION

PURPOSE

The appointee will be a committed academic with expertise in algebra, discrete mathematics or analysis, but applicants with teaching and research interests in any branch of pure mathematics will be considered. The candidate will be expected to participate in research as well as teaching programs for honours and undergraduate courses in their area of expertise. Proficiency in other areas of mathematics, statistics or computer science and experience in integrating mathematics learning with computer applications will be an advantage. In order to be appointed at senior level, an applicant will have an outstanding record in teaching, a demonstrated record of achievement and proficiency in research. The candidate should possess a PhD degree in pure mathematics.

ACCOUNTABILITIES

With assistance from MSCS staff candidate will update and review pure mathematics courses, as well as participate in reviewing other stream courses in statistics and computer science, that are offered and taught in MSCS, from time to time as necessary to be in par with similar universities around Australia, Oceania and the world.

MAJOR DUTIES

1. TEACHING

- Present and coordinate undergraduate and postgraduate courses
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- Create and maintain contact/link with industry.
- Provide guidance to junior academics in preparing and delivering lectures and seminars.
- Participate in curriculum and course review
- Initiate and development of course materials
- Supervision of program of study of honours and post graduate students engaged in course work.
- Marking and Assessment

2. RESEARCH SUPERVISION

- Encourage/motivate/supervise research for both honours and postgraduate students

3. ADMINISTRATION

- Assist in school and strand administration as well as various UPNG committees as appropriate

4. RESEARCH

- Conduct research in fields of pure mathematics as well as research in collaboration with external universities
- Encourage and lead junior staff to carry out research
- Publish ethical research results as well as present research papers at public forums within scientific communities

5. OUTREACH

- Provide unpaid consultancy and advisory role if required by UPNG/Others
- Develop course material for distance education
- Conduct short courses as appropriate

6. DISTANCE EDUCATION

- Develop course material for distance education

SELECTION CRITERIA

TRAINING LEVEL OR QUALIFICATIONS

FACTORS	
Professional Qualifications	PhD in pure mathematics is an advantage
Publications	Evidence of past publications in reputable international journals and contributions to scientific meetings and conferences
Abilities	Must be able to teach and lead research in any field of mathematics is essential and crucial
Experience	A number of years of experience in research as well as experience in using popular mathematical computing tools
Breadth of Skills	Multi skilled in being able to teach across a broad spectrum of courses in computer science and computing mathematics in order to provide support when required
Other Skills	Strong computing skills, able to code in one or two computer languages (not essential), have skills to contact government and industry agencies

KNOWLEDGE, SKILLS AND PERSONAL ATTRIBUTES

1. Knowledge and skills as listed table above
2. Motivated and enthusiastic about these fields and about teaching and research
3. Knowledge of the UPNG Code of Conduct
4. Appreciate the cultures and traditions of the people of Papua New Guinea

HISTORY OF POSITION – (HR DIVISION OFFICE USE ONLY)

UPNG FILE NO.	DATE OF VARIATION	DETAILS
