



## POSITION DESCRIPTION

### The University of Papua New Guinea

<b>DETAILS OF POSITION</b>	<b>POSITION NO.:</b> 131001
<b>SCHOOL/OFFICE:</b> SNPS	<b>CLASSIFICATION:</b> U06
<b>DIVISION/STRAND:</b> PHYSICS	<b>POSITION TITLE:</b> Professor in Physics
<b>BRANCH:</b> UPNG Waigani main campus	<b>IMMEDIATE SUPERVISOR CLASSIFICATION &amp; POSITION:</b> Executive Dean SNPS
<b>SECTION:</b> Academic	<b>HIGHEST SUBORDINATE CLASSIFICATION &amp; POSITION:</b> Divisional/Strand Leaders, PhD holders, Senior lecturers/lecturers in PHYSICS
<b>LOCATION:</b> Science III Building	

### **ROLES AND RESPONSIBILITIES OF POSITION**

#### **PURPOSE**

The appointee will be a distinguished Physicist with a background in any branch of Physics but with an interdisciplinary outlook and dedicated to teaching and research.

The appointee will be the academic leader of the Division of Physics and is expected to lead the teaching, research activities and be able to supervise postgraduate students up to doctoral level. He/she should have research and teaching links with external institutions and organizations for collaborative purposes. The candidate must have a minimum doctorate degree from a recognized university and has been a professor of a University with teaching experience and excellence in research, consultancy, outreach and good management skills. It is essential the appointee should be able to carry out research and supervise postgraduate students in some areas of General Physics, Communications Technologies, Electronics Technologies, Computing in Physics, or Satellite Technologies. The appointee is also expected to teach and contribute to the Open and Distance Education program of the university.

#### **ACCOUNTABILITIES**

With assistance from PHYSICS, staff candidate will update and review Physics courses 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
  - Maintain contact/link with industry
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 physics/mathematics as well as research in collaboration with external universities
- Seek external funds for research purposes and manage research funds
- 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/PNG Government
- Develop course material for distance education
- Conduct short courses as appropriate

6. DISTANCE EDUCATION

- Develop course material for distance education
- Review course delivery methods and content materials

**SELECTION CRITERIA**

**TRAINING LEVEL OR QUALIFICATIONS**

FACTORS	
Professional Qualifications	PhD in Physics is a must
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 Physics is essential and crucial
Experience	A number of years of experience in research as well as experience in using Teaching, supervising students
Breadth of Skills	Multi skilled in being able to teach across a broad spectrum of courses 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 make contact with 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

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**HISTORY OF POSITION – (HR DIVISION OFFICE USE ONLY)**

UPNG FILE NO.	DATE OF VARIATION	DETAILS

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