



POSITION DESCRIPTION

The University of Papua New Guinea

DETAILS OF POSITION	POSITION NO.: 131022
SCHOOL/OFFICE: SNPS	CLASSIFICATION: U04
DIVISION/STRAND: PHYSICS	POSITION TITLE: Senior Lecturer in Physics
BRANCH: UPNG Waigani main campus	IMMEDIATE SUPERVISOR CLASSIFICATION & POSITION: Executive Dean SNPS
SECTION: Academic	HIGHEST SUBORDINATE CLASSIFICATION & POSITION: Lecturers in Physics
LOCATION: Science I Building	

ROLES AND RESPONSIBILITIES OF POSITION

PURPOSE

The appointee is expected to actively take part in teaching & research in pure physics (Condensed Matter Physics, High Energy Physics, etc.) and Nuclear and radiation Physics. The appointee must have a strong background in general Physics and a good team player. He/She will be responsible in developing courses and link with medical sector in line with 2050 GoPNG health plans.

Some knowledge of computer programming in C++, Java, or other programming languages and their applications are essential. Candidates with knowledge of computer based teaching that incorporate active learning strategies will have an advantage. The appointees are expected to teach and contribute to the Open and Distance Education program of the university.

ACCOUNTABILITIES

Under guidance of Professor and assistance from Physics staff candidate will assist in review of all Physics academic courses in the Medical Physics Strand, in line with recommendation from academic audit exercise. Ensure that standards are maintained and participate more vigorously in research. Link with alumni and promote and link with industry and international collaborators. The level of Physics must be in par with similar universities around Australia, Oceania and the world. Publish at least a research paper in the contract period.

MAJOR DUTIES

1. TEACHING
 - Present and coordinate undergraduate and postgraduate academic courses in Medical Physics
 - Maintain contact/link with industry in areas of Medical Physics and related academic programs
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
 - Responsible for the day to day administration of Physics and the Medical Physics strand academic program.

4. RESEARCH

- Conduct research in fields of Pure Physics as well as research in collaboration with external universities
- Encourage and lead junior staff to carry out research in Medical Physics and related areas
- 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 under Physics and STEM.
- Conduct short courses as appropriate

6. DISTANCE EDUCATION

- Develop course material for distance education in general Physics and applied areas and STEM.

SELECTION CRITERIA

TRAINING LEVEL OR QUALIFICATIONS

FACTORS	
Professional Qualifications	MSc/PhD in Medical Physics 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 Pure and Medical Physics is essential and crucial
Experience	Five (5) or more of years of experience in research as well as experience in teaching Medical Physics at both undergraduate and Post Graduate levels.
Breadth of Skills	Multi skilled in being able to teach across a broad spectrum of courses in order to provide support when required especially with pure Physics and other applied Physics courses taught within the discipline.
Other Skills	Strong computing skills, able to code in one or two computer languages (not essential), have skills to secure support financially and resources to build a modern Physics Facility for teaching and research

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