

## **MOTIVATIONAL LETTER FOR PARTICIPATION IN THE 6TH ADVANCED NUCLEAR SCIENCE AND TECHNOLOGY TECHNIQUES (ANSTT6) WORKSHOP**

Dear Members of the Selection Committee,

My name is Penina George Mbago, a Tanzanian citizen working at the University of Dar es Salaam, College of Natural and Applied Sciences, in the Physics Department as an Assistant Lecturer. I am excited to apply for participation in the 6th Advanced Nuclear Science and Technology Techniques (ANSTT6) workshop. This workshop presents a valuable opportunity for me to deepen my knowledge of modern nuclear science techniques, particularly in areas such as radiation detection, nuclear instrumentation, experimental data analysis, and the application of nuclear technology in the environment and societal health.

Furthermore, the workshop will give me access to advanced training and discussions with experienced researchers that will greatly enhance my ability to conduct meaningful research and contribute to the safe and effective use of nuclear technologies. Equally important to me is the opportunity to interact with fellow scientists and young researchers from different institutions and countries. Such interactions are valuable for exchanging ideas, learning from different experiences, and building collaborations that can strengthen nuclear science research across the region.

During my postgraduate studies, I developed a strong interest in nuclear medicine and radiation protection. My research focused on estimating radiation exposure to caregivers of patients treated with I-131 at the Ocean Road Cancer Institute in Tanzania. Working on this project helped me better understand the practical challenges of radiation safety in clinical settings. It also strengthened my motivation to continue building expertise in nuclear measurement techniques and radiation protection practices of which this workshop aligns well with my interests.

As a young academic at the University of Dar es Salaam, I am committed to supporting the development of nuclear science education and research in Tanzania. The knowledge and experience gained from this workshop will not only strengthen my own research capacity but will also benefit my students and colleagues through teaching, mentorship, and collaborative research activities.

I would be truly grateful for the opportunity to participate in the ANSTT6 workshop and to learn from the international community of nuclear scientists involved in this program. Thank you very much for considering my application.

Yours sincerely,

Penina George Mbago

Assistant Lecturer, Department of Physics

University of Dar es Salaam, Tanzania