

MOTIVATION LETTER

I am writing this to express my sincere interest in the Summer School for Effective HPC for Climate and Weather, and I will like to be a part of the project group working on the topic including two or more of these keywords: Air quality, Aerosols, Greenhouse gases, Global warming and Extreme weather events.

I work as a Research Fellow II at Physics Advanced Research Centre (PARC), Sheda Science and Technology Complex (SHESTCO), FCT, Abuja, Nigeria. During my undergraduate studies at University of Ilorin, in Nigeria, I worked on Aerosol Optical Depth/thickness (AOD), using a handheld Sunphotometer where I obtained my B.Sc degree in Physics and was awarded the overall best student in Physics department based on the cumulative results. For my Master of Science degree (M.Sc.) at the same Institution, my research work was on Nighttime F-region Equatorial Ionospheric Vertical Drift, using the Digisonde Portable Sounder (DPS).

In my search for excellence, I attended an International Symposium and Lecture Course on Atmospheric Aerosol at the 15th CAS-TWAS-WMO Forum (CTWF) and 15th AeroCom & AeroSAT workshop in 2016 at Beijing in China. Also in September 2017 at the 16th CTWF on Climate Science, I presented a work titled “Design of a Data Acquisition and Logging System for Air Pollution Monitoring and Meteorological Application”.

At SHESTCO, the enterprise servers available are: **Oracle SUN FIRE X4270 M2** with operating system Linux/Ubuntu, and **HP ProLiant DL380 G10** with windows server 2019. There are some other additional computational clusters yet to be fully set up, but hoping to link them to High Performance Cluster soon. The availability of these motivates me to participate in the summer school, and I believe this will help me put into use the knowledge to be acquired in computation and analysis of relevant data, thereby foster my career at PARC as the only Space/Atmospheric Physicist at the complex and fast-track my PhD program.

Finally, the quest for excellence, best training and world class mentorship is my motivation to attend the summer school. This will present me with the opportunity to be exposed to the world class practical learning experiences, and facilities which conform to acceptable world standards. Also, the experience of being exposed to new cultures and adapting to different value systems and methodologies really appeals me.

Yours faithfully,



Gabriel O. Oyerinde.