

THE DESIGN FOR A SPACE WEATHER BASED EARLY WARNING TOOL

Call for Masters Candidates

Project Background

The Science, Technology and Innovation Secretariat is pivotal in spearheading initiatives aimed at developing the country's space capabilities. The country's interest in space technology is driven by the need for improved communication, agriculture monitoring, disaster management, and environmental conservation. As part of the efforts to harness the application of space science and technology, government of Uganda, through the Aerospace Bureau awarded a grant to Busitema University to develop "A SPACE WEATHER BASED EARLY WARNING TOOL".

The long-term objective of the project is to contribute to reducing space weather related disasters in Uganda through developing a robust space-based weather prediction system. The project aims at developing knowledge and expertise in space weather by following these three specific objectives:

- 1) Develop and test a space weather based early warning tool
- 2) Design a prototype ground weather instrumentation for data collection
- 3) Provide training in space science and technology

The achievement of these objectives is based on strengthening of key institutions in these domains with a strong link to citizen-based science. To achieve objective 3 of the project, part of the project funds have been allocated to train Ugandans who are passionate about space science and are willing to contribute to the overall goal of the project.

Through masters training the project will enhance innovation and collaboration in space activities, across a number of institutions of higher learning. The Project therefore seeks to recruit two (2) masters' candidates to join the project as graduate fellows.

What the Project offers

- 1) The full masters funding is conditional to the successful defense of a proposal aligned to the project.
- 2) The masters will be carried out in 2 years while registered in Busitema university.
- 3) The scholarship covers project related travel and other expenses.
- 4) A modest monthly stipend will also be provided.

Applicant's profile

- a) Must hold either a bachelor of science with Education, bachelor of science, bachelor of engineering, bachelor of computer science or should be about to obtain these degrees.
- b) Must have obtained at least upper second-class Bachelor's degree with a CGPA of at least 4.1
- c) Must have applied for or secured a masters vacancy from Busitema university.
- d) Having Undergraduate research in Space Science and Technology is of added advantage.
- e) The candidate will be subject to the regulations of the host university.
- f) The master's candidate shall devote his/her full-time to his/her studies.
- g) The master's candidate will join the project team (The ST&I-Aerospace Bureau and Busitema University) during its lifetime.

Application procedure

The application should include:


- a) Copies of academic documents.
- b) A letter of recommendation from the current employer indicating their willingness to grant you time to undertake the master's program. For those on government payroll, this letter should clearly indicate that you have been granted a study leave.
- c) Letter from an academic referee supporting your application.
- d) A soft copy of your undergraduate report.
- e) The applications should be addressed to the principal investigator, A SPACE WEATHER BASED EARLY WARNING TOOL, Busitema University, Box 236, Tororo and the applications should be sent with updated CV as a single pdf file to swt@busitema.ac.ug and copied to doreen.agaba@sti.go.ug, geoffrey.andima@gmail.com, gilbertocen@gmail.com not later **September 4th, 2024, 5:00 PM EAT**

The Selection Process

- Selected candidates will be assessed based on how the documents submitted align with the needs of the project for the selected topic.

- The selected candidates will then be contacted for an interview to assess their suitability.
- Applicants who would have not been contacted by the end of the selection process should consider themselves unsuccessful.

Signed

A handwritten signature in black ink, appearing to be 'S. J. ...', written over a horizontal line.

**Principal Investigator
SW-EWT Project**