

PRESS RELEASE

For immediate release April 1, 2022 Ministry of Education Lilongwe

NATIONWIDE CAMPAIGN FOR HIGH PERFORMANCE COMPUTING (HPC) RESEARCHERS ENGAGEMENT IN MALAWI

The Ministry of Education (MoE) through the Directorate of Science, Technology and Innovation (DSTI) in collaboration with South Africa Centre for High Performance Computing (CHPC) would like to cordially invite all interested Malawi researchers to attend and participate in a virtual (Zoom) engagement session scheduled to take place on Thursday, 7 April 2022, from 10:00 to 12:00 (2 Hours).

This initiative forms part of the SADC Cyber Infrastructure bilateral collaboration initiatives between Malawi and South Africa Governments towards the deployment and expansion of High-Performance Computing (HPC) infrastructure, resources, expertise and usage in Malawi.

The purpose of the engagement with Malawi researchers is threefold:

 To communicate current initiatives towards the provisioning of High-Performance Computing (HPC) infrastructure and services in Malawi in collaboration with the South African based Centre for High Performance Computing (CHPC);

- 2. To communicate immediate opportunities and practical steps for Malawi researchers to access and use HPC computing resources as currently hosted at the CHPC in South Africa, and;
- 3. To obtain understanding and feedback from Malawi researchers on the need for access to HPC computing resources towards enhancement of Modelling and Simulation (M&S) as a key fundamental tool to enhance research impact and outputs across a wide range of scientific and engineering domains.

The format of the engagement session will be informal with open discussion encouraged. The agenda that will guide the discussions is as follows:

Session Chairs: Associate Prof Chomora Mikeka, Director of Science, Technology and Innovation (DSTI) and Dr Werner Janse van Rensburg, CHPC Research Manager

- 1. Welcome and attendee introductions (20 min) All
- 2. Background to HPC Implementation Initiatives in Malawi (15 min) Associate Prof Chomora Mikeka
- 3. Practical access, examples and usage opportunities at the CHPC (15 min) Dr Janse van Rensburg
- 4. Malawi researchers/scientists/engineers' presentations:
 - a. CEO Solomon Dindi, MAREN Data Network Simulation: A case study for the Malawi Research and Education Network, MAREN (10 min)
 - b. CEO Eugene Maseya, NxtGen Labs Virtual Reality Apps and Simulations with Computational Fluid Dynamics, and Forensic Hydrogeology: precision underground water modeling and simulation for complex urban area setting (10 min)
 - c. Deus Thindwa, Malawi-Liverpool-Wellcome Research Programme Disease transmission modelling using likelihood-based inference algorithms: Modelling pneumococcal transmission in Malawi (10 min)
 - d. Wilson Nandolo, Lilongwe University of Agriculture and Natural Resources-Department of Animal Science Livestock genomics

Algorithms: Detection of copy number variants; functional annotation of animal genomes (10 min)

- 5. Open Discussion and next Steps (25 min)
- 6. Closing (5 min)

To attend the engagement session, please proceed to register your participation via the Zoom details below:

Date & Time: April 7, 2022 10:00 AM Johannesburg

Register in advance for this meeting:

https://zoom.us/meeting/register/tJltdOiopzosGN0CbQhOlHZ_7y0olTRy91UV

After registering, you will receive a confirmation email containing information about joining the meeting.

If you have any questions about the event, please do not hesitate to contact the following with their email details provided below:

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