

**INTERNATIONAL WORKSHOP**  
**ON**  
**AGRICULTURAL RESEARCH AND INNOVATION FOR**  
**RESILIENT LIVELIHOODS IN DRYLANDS**

**June 27-28, 2024**  
**Masvingo, Zimbabwe**

	<p><b>CENTRE FOR SCIENCE &amp; TECHNOLOGY OF THE NON-ALIGNED AND OTHER DEVELOPING COUNTRIES (NAM S&amp;T CENTRE) NEW DELHI, INDIA</b></p>
	<p><b>GREAT ZIMBABWE UNIVERSITY (GZU) MASVINGO, ZIMBABWE</b></p>

## INTRODUCTION

Agricultural research and innovation play pivotal roles in fostering resilient livelihoods, particularly in regions characterized by drylands. Drylands constitute 40% of the world's land area, are home to approximately 2 billion individuals and encompass 44% of the world's cultivated systems, supporting a diverse array of ecosystems, biodiversity, cultures and livelihoods. However, despite this, drylands are faced with a complex combination of climatic and anthropogenic challenges, which if left unaddressed may cause poverty, food insecurity, malnutrition, frequent droughts and environmental degradation. As the world strides into the epoch of the fourth industrial revolution, defined by innovation and cutting-edge industrial advancements, it becomes imperative not to exclude agricultural systems in drylands from this transformative drive. Drylands should become citadels of innovations and industrialisation activities that feed the globe rather than becoming fortresses of hunger and poverty or the chief recipient of aid. With appropriate investment in education, innovation, research and development, which embraces indigenous systems, drylands can feed the globe and provide adequate resources for industrialisation.

In this context, the Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre), in partnership with the Great Zimbabwe University, Masvingo, Zimbabwe will be organizing an International Workshop on **“Agricultural Research and Innovation for Resilient Livelihoods in Drylands”** during June 27-28, 2024 in Masvingo, Zimbabwe for knowledge-sharing among various scientists, researchers, development practitioners, research institutions, academia, civil society organizations, policymakers and other stakeholders to drive forward-thinking research agendas, facilitate technology transfer, and promote inclusive innovation ecosystems tailored to the unique needs of dryland communities.

## WORKSHOP OBJECTIVES

The objectives of this Workshop are:

- Facilitating knowledge exchange and collaboration among researchers, policymakers, practitioners, and stakeholders involved in dryland agriculture.
- Identifying and prioritizing research gaps and innovation needs to address key constraints to resilient livelihoods in drylands.
- Showcasing successful case studies and best practices in agricultural research and innovation from dryland regions around the world.
- Promoting the adoption of climate-smart agricultural practices and sustainable land management techniques tailored to the specific needs of dryland communities.
- Encouraging interdisciplinary approaches to agricultural research and innovation that integrate scientific expertise, traditional knowledge, and community perspectives.
- Strengthening partnerships between academia, research institutions, government agencies, non-governmental organizations (NGOs), and the private sector to support innovation and technology transfer in dryland agriculture.

## TOPICS TO BE COVERED

- Heritage-based indigenous knowledge systems for mitigating impacts of climate change in dryland areas

- Soil and water management and conservation in drylands
- Integrated crop-livestock dryland farming systems
- Aridity and livestock production
- Policy Frameworks for Research and Innovation
- Capacity building and knowledge transfer
- Sustainable rangeland and natural resource management in drylands
- Food processing and value addition
- Agri-business and inclusive market driven value chains
- Innovative methods in precision agriculture for dryland areas
- Environmental science and green energy
- Technological innovations
- Climate change mitigation and adaptation in dryland areas

## **IMPORTANT DATES**

<b>ACTIVITY</b>	<b>DATES</b>
<b>Date of the Program</b>	<b>June 27 - 28, 2024</b>
<b>Submission of Application Starts</b>	<b>April 26, 2024</b>
<b>Last Date for Submission of Applications along with Abstract of Paper to be Presented</b>	<b>May 27, 2024</b>
<b>Last Date for Submission of Full Manuscript</b>	<b>June 17, 2024</b>

## **WORKSHOP STRUCTURE**

The workshop will be structured into six major components:

- Opening plenary session with a keynote address and high-level panel discussion and an invited science talk;
- Parallel sessions for oral presentation or selected research/technical papers, and case studies;
- Poster sessions aimed at displaying scientific findings, and to discuss such findings with attendees;
- Other panel and roundtable discussions with invited experts to share their perspectives on selected topics and;
- Exhibition of innovative products and services in line with the conference theme (scientific and non-scientific).

## TENTATIVE PROGRAMME OF THE WORKSHOP

Programme	Session Details	
	June 27, 2024	June 28, 2024
10.00-11.00 hrs	Inaugural Session	Technical Session III
11.00-13.00 hrs	Keynote Lectures	Poster Session
14.00-15:00 hrs	Technical Session I	Technical Session IV
15:15-17.30 hrs	Technical Session II	Adoption of Resolution and Concluding Session

*Note: A detailed Session-wise Programme will be made available before the Workshop.*

### TARGET PARTICIPANTS

Researchers, scientists, technocrats, innovators, government officials and policymakers, legal experts and representatives from industry and non-government organizations, research and academic organizations who are engaged in the fields related to Dryland Agriculture - are invited to participate in this Workshop. The combination of participants from various developing countries will allow the exchange of knowledge, ideas and experiences as well as opportunities for global networking and collaboration.

*English will be the official language of the programme.*

### RESOURCE PERSONS

The resource persons for the Workshop will comprise eminent experts and professionals in the relevant fields from Zimbabwe, India and other countries.

### ABOUT THE ORGANISERS

#### **CENTRE FOR SCIENCE & TECHNOLOGY OF THE NON-ALIGNED AND OTHER DEVELOPING COUNTRIES (NAM S&T CENTRE), NEW DELHI, INDIA**



The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre) is an Inter-Governmental Organisation with a Membership of 47 countries spread over Asia, Africa, the Middle East and Latin America. The Centre was set-up in 1989 in New Delhi, India, based on decisions taken during various NAM Summits and is mandated to undertake a variety of programmes, including organization of international workshops, training programmes and training courses and implementation of multilateral collaborative projects. It also offers short-term fellowships programmes to scientists and researchers from developing countries in association with the Centres of Excellence in various countries. The Centre also brings out technical books, monographs and other scientific publications in different S&T subjects of interest to

developing countries. The Centre's activities provide an opportunity for scientist-to-scientist contact and interactions; familiarizing participants on the latest developments and techniques in the subject areas; identification of the requirements of training and expert assistance; locating technologies for transfer between the Members and other developing countries and dissemination of S&T information etc. In addition, the Centre encourages Academic- R&D-Industry interactions in the developing countries through its "NAM S&T-Industry Network". The Centre is giving special focus on helping the NAM S&T Centre Member Countries in their capacity building to achieve the UN Sustainable Development Goals – 2030. More details about the Centre are available at [www.namstct.org](http://www.namstct.org).

## **GREAT ZIMBABWE UNIVERSITY (GZU), MASVINGO, ZIMBABWE**

Great Zimbabwe University is an institution of higher learning registered as such in terms of Masvingo State University Act (Chapter 22:24) and renamed Great Zimbabwe University in 2007 by the passing of Masvingo State University Act Amendment (2007). The university is situated in the city of Masvingo, Zimbabwe. Great Zimbabwe University comprises six schools i.e. the Gary Magadzire School of Agriculture and Engineering, School of Natural Sciences, Simon Mazorodze School of Medical and Health Sciences, Julius Nyerere School of Social Sciences, Robert Mugabe School of Heritage and Education, and Herbert Chitepo School of Law and Business Sciences. The research, innovation, teaching, industrialization and community service core functions of these schools are directly supported by the Research and Innovation Department, the Postgraduate and Publications Department and the Quality Assurance and Academic Planning Department. The mission of the Great Zimbabwe University includes reclaiming and preserving African culture and heritage; mainstreaming arts, culture and heritage in teaching and research; leading in the development of entrepreneurs and professionals in the creative industry; providing stakeholders with an enabling environment for research and empowering them with entrepreneurial skills; producing versatile graduates equipped with skills and competencies relevant to the needs of society; using ICT-based solutions in teaching, learning, research, administration and innovation; and uplifting communities through our involvement in their development. More information about Great Zimbabwe University is available at [www.gzu.ac.zw](http://www.gzu.ac.zw).



## **SUBMISSION OF APPLICATIONS**

Experts and scientists desirous of participating in the Workshop, *except those from Zimbabwe*, should submit their applications **electronically** to the Director General, NAM S&T Centre, New Delhi at [namstcentre@gmail.com](mailto:namstcentre@gmail.com) as early as possible but latest by **May 27, 2024**.

However, applicants from Zimbabwe should submit their applications directly to the Executive Dean, Gary Magadzire School of Agriculture and Engineering, Great Zimbabwe University (GZU), Zimbabwe at [drylandagriculture@gzu.ac.zw](mailto:drylandagriculture@gzu.ac.zw)

The following documents must be submitted as e-mail attachments:

- a) Filled in Application Form (Blank form **enclosed**).
- b) Opinion (a short paragraph; **in MS Word format**) how the applicant qualifies to participate in the Workshop.
- c) A short CV in the **attached** Format (**maximum two pages; in MS-Word**)

**format).**

- d) An Abstract (**about 300 words, in MS-Word only**) of the Paper that would be presented during the Workshop.
- e) Scanned Copy of the relevant pages of the passport.

**Note:** The documents (b), (c) and (d) above must be in **MS-Word format** only; PDF or image files will not be accepted. Hard copies of the Application Form and the above attachments are **NOT REQUIRED** to be submitted.

## **PRESENTATION OF PAPERS**

Delegates/Participants are expected to present a Country Status Report and/or a research/scientific paper on any of the themes appropriate to the Workshop.

## **LOCAL HOSPITALITY AND TRAVEL**

Local hospitality in Zimbabwe including accommodation, meals and local transport for the foreign participants sponsored by the NAM S&T Centre will be provided from **June 26, 2024 to June 29, 2024** (i.e. from one day before to one day after the completion of the Workshop). The participants are requested to book their flights accordingly; otherwise, they will have to make their own arrangements of stay beyond these dates.

## **FINANCIAL ARRANGEMENTS FOR TRAVEL**

The financial terms and arrangements for international travel of foreign participants will be conveyed to individual applicants on receipt of the Application and other documents.

## **ENTRY FORMALITIES AND IMMIGRATION**

Participants of the Workshop must be in possession of a current passport or any other internationally recognized travel document, which must have a **period of validity of at least six months beyond the period of stay in Zimbabwe** and must be endorsed for travel to Zimbabwe.

Participants should have a valid visa for entry into Zimbabwe. The Zimbabwean diplomatic mission located in the country of the participant should be approached for obtaining an entry visa. The organizers will facilitate the issuance of visa by providing the participants with an official letter of invitation.

## **NOTE:**

*The governments/institutions of the selected participants will be required to bear the following costs:*

- All expenses in the home country incidental to travel abroad, including expenditure for passports, visa fee, required medical examinations, vaccinations and miscellaneous expenses such as internal travel to the airport of departure in the home country.
- Salary and other related allowances for the participants during the period of the Workshop.
- Cost of medical insurance to cover the period of participation in the workshop.

*The organizers of this Workshop will not assume responsibility for the following expenditure in connection with the participant's attendance in the Workshop:*

- Expenses incurred with respect to any insurance, medical bills or hospitalization fees.
- Compensation in the event of death, disability or illness of participants.
- Loss of personal belongings or compensation for damage caused to them by climatic or other conditions.
- Other costs, including airport tax and excess baggage.

## **OTHER USEFUL INFORMATION**

- The temperature in Masvingo during the Workshop period would be around 14°C.
- Zimbabwean Standard Time is +2 hours ahead of GMT.
- Zimbabwe uses a multicurrency system that include the Zimbabwe gold (zig) and United States Dollars.

## **PUBLICATION ON THE SUBJECT**

A publication edited by one or more international experts and based on the papers presented by the participants during the Workshop and also containing papers contributed by other eminent experts in the field will be brought out in the form of a book as a follow-up of this scientific programme. Therefore, all participants are requested to submit the manuscripts of their full papers in MS-word format well in advance, but latest by ***June 17, 2024.***

## **SELECTION OF APPLICANTS**

Selection of applicants will be made based on their academic and professional backgrounds. Successful applicants will be electronically informed about their selection.

## **SECRETARIAT AND ENQUIRIES**

### **NAM S&T CENTRE**

**Dr. Amitava Bandopadhyay,**

Director General,

Centre for Science & Technology of the Non-Aligned and Other Developing Countries  
(NAM S&T Centre),

Core-6A, 2<sup>nd</sup> Floor, India Habitat Centre,

Lodhi Road, New Delhi-110003, India

**Tel:** +91-11-24645134, 24644974

**E-mail:** [namstcentre@gmail.com](mailto:namstcentre@gmail.com)

**Website:** <https://www.namstct.org>

### **GREAT ZIMBABWE UNIVERSITY (GZU)**

**Dr. Clarice Princess Mudzengi,**

Research Chair,

Great Zimbabwe University,

Gary Magadzire School of Agriculture and Engineering,

P O Box 1235,

Masvingo, Zimbabwe

**E-mail:** [drylandagriculture@gzu.ac.zw](mailto:drylandagriculture@gzu.ac.zw)

**Website:** [www.gzu.ac.zw](http://www.gzu.ac.zw)

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(NAM S&T CENTRE)**

**INTERNATIONAL WORKSHOP**

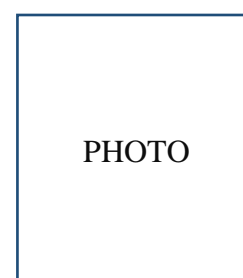
**ON**

**Agricultural Research and Innovation for Resilient  
Livelihoods in Drylands**

**June 27-28, 2024  
Masvingo, Zimbabwe**

**APPLICATION FORM**

**PLEASE TYPE OR USE BLOCK CAPITALS (NO COLUMN  
SHOULD BE LEFT BLANK)**



**SECTION – A**

(To be filled in by the Applicant)

- 1 First Name (Prof. /Dr. /Mr. /Mrs. /Ms.): .....  
Middle Name: .....  
Last Name: .....  
*(As in Passport)*
2. Father's/Spouse Name: .....
- 3 Designation (Position held): .....
4. Nationality: .....
- 5 Date of Birth: ..... Place of Birth (City) ..... (Country).....
- 6 Passport No: .....Place of issue: .....  
Date of Issue: ..... Valid up to: .....  
*(Please attach copies of the relevant pages of your Passport)*
- 7 Name of the Parent Institution (Employer): .....  
Full Address (Office): .....  
.....  
Phone: ..... E-mail:.....

- 8 Full Address (Home): .....  
 .....  
**Mobile:** .....  
 E-mail: .....
- 9 Educational Qualifications: Highest Degree. ....  
 Year of Award: ..... University: .....  
 Field of Study: .....
- 10 Brief Bio data (CV): .....  
 (**Maximum two pages, in MSWord**; to be prepared in enclosed Format)
- 11 Abstract of your paper proposed to be presented in the Workshop.  
 (**About 300 Words, in MSWord**; to be attached on separate sheet)
- 12 What in your opinion qualifies you for participation in this Workshop?  
 (To be attached on separate sheet)
- Date: ..... Signature: .....

**SECTION – B: ENDORSEMENT BY THE NOMINATING AUTHORITY**

(The Applicant in a Member Country of the NAM S&T Centre and NAM S&T – Industry Network Member must get the Nomination Form endorsed by the Focal Point of the Centre in his/her country if he/she wishes to take financial benefits extended to the official nominee of the country. For the list of member countries and names/ addresses of the Focal Points please visit the Centre’s official website; [www.namstct.org](http://www.namstct.org))

Signature: .....  
 Name (in full): .....  
 Designation: .....  
 Date: .....

**SEAL**

**Enclosures:**

- 1) A Brief CV (maximum two pages, as per **attached** format; in MS Word only).
- 2) An Opinion (in MS-Word format only) on what qualifies you to attend the Workshop.
- 3) An Extended Abstract (in MS-Word only) of the Paper that would be presented at the Workshop.
- 4) Scanned Copy of the relevant pages of the passport.

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**CURRICULUM VITAE**

1. Personal Details:

Name: (Prof./Dr./Mr./Mrs./Ms.)

Designation: Position Title

Present Employer: Full Address (Office)

City/State/Province:

Country:

Nationality:

Date of Birth: dd/mm/yyyy

Proficiency in English Language:

Permanent Address: Full Address (Home)

Gender:

Contact: Mobile:

Telephone Office:

E-mail:

Alternative e-mail:

2. Academic Qualifications: In chronological order

Qualification Awarded Degree/Diploma/Certificate	Major Subject	University/ Institution	Year (From-To)

3. Professional Experience: In chronological order

Organisation/ Institution	Position Title	Year (From-To)	Nature of duties


Total number of years of relevant experience –

4. Research Experience: In chronological order

Research Title	Duration	Status

5. Administrative Experience: Not more than 100 words

6. Experience with respect to the title of the Workshop:

7. Details of Awards/Recognitions (if any):

8. Any other information: Not more than 50 words

9. Recent Publications: Only five recent publications to be mentioned

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