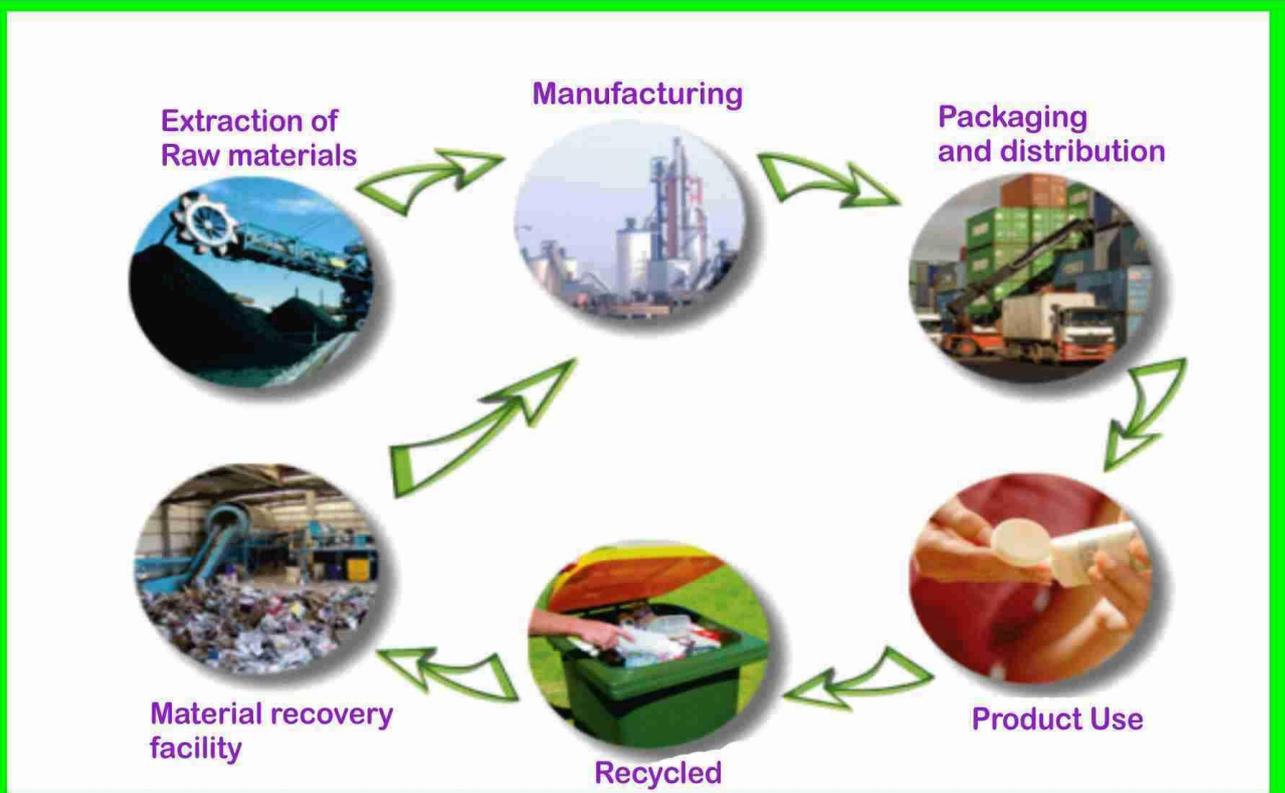


# 2<sup>nd</sup> Training Workshop on **INDUSTRIAL BIOTECHNOLOGY: DRIVING VALUE ADDITION AND BENEFICIATION**

Harare, Zimbabwe  
22 – 24 August 2017



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



Ministry of Higher and Tertiary Education,  
Science and Technology Development, Zimbabwe



National Biotechnology Authority (NBA), Zimbabwe

## **Introduction**

Industrial Biotechnology can be an enabling tool to achieve social, economic and environmental development. It is one of the most promising new approaches to pollution prevention, resource conservation and cost reduction. Biotechnology uses biological processes and systems found in nature to develop novel products which are eco-efficient and more environment-friendly compared with similar products produced using alternative technologies. The immense potential applications of Biotechnology in industry to produce innovative products in a sustainable manner cannot be over emphasized. Industrial Biotechnology has been termed the “third wave in Biotechnology”. If developed to its full potential, Industrial Biotechnology may have a larger impact on the world than health care and Agricultural Biotechnology. The application of Industrial Biotechnology in particular has proven to make significant contributions towards mitigating the impacts of climate change especially in lowering greenhouse gas emissions. There is also the possibility of reduction in cost of business and the creation of new markets.

The NAM and other developing countries acknowledge the important role that Industrial Biotechnology plays in the conversion of natural resources into value added products of benefit to humans. Novel Biotechnologies for adding economic value to under-utilised biological resources in developing countries are capable of meeting specific developmental and biodiversity conservation goals, respectful of cultural and social values.

The NAM S&T Centre now announces the organisation of the 2<sup>nd</sup> Training Workshop on “**Industrial Biotechnology: Driving Value Addition and Beneficiation**” in Harare, Zimbabwe from 22<sup>nd</sup> to 24<sup>th</sup> of August 2017. This event will be hosted by the Ministry of Higher and Tertiary Education, Science and Technology Development through the National Biotechnology Authority (NBA) of Zimbabwe.

## **Objectives of the Workshop**

The 2<sup>nd</sup> training workshop hopes to achieve the following objectives:

- 1) To understand how value addition and beneficiation in industry may be achieved through technology transfer and the application of biotechnology.
- 2) To give local and international businesses an opportunity to showcase their products.
- 3) To provide insight, education and awareness on technologies that may be exploited by producers for processing raw materials into bio-based products of economic importance.
- 4) To promote beneficial collaboration among scientists, technologists and scientific organizations from Non-aligned and other developing countries.
- 5) To establish and link national and regional centres for development and transfer of technology.

## **Expected Workshop Outcomes**

- 1) Understanding of the benefits of biotechnology in value addition and beneficiation. Identification of further biotechnology awareness interventions.
- 2) Establishment of a Biennial Industrial Biotechnology conference.
- 3) Organisation of local and international exhibitions of products by business operators.
- 4) Preparation of a report with recommendations on further work and/or steps needed to make progress on biotechnology in NAM and other developing countries.

## Programme of the Workshop

A tentative programme of the Workshop is given below:

DATE	PROGRAMME	
Monday, 21 <sup>st</sup> August 2017	Arrival at Harare, Zimbabwe	
Tuesday, 22 <sup>nd</sup> August 2017	Inauguration	Technical Session
Wednesday, 23 <sup>rd</sup> August 2017	Technical Session	Technical Session
Thursday, 24 <sup>th</sup> August 2017	Concluding Session, Discussion on Harare Resolution and Adoption of Resolution	Field Visits
Friday, 25 <sup>th</sup> August 2017	Departure	

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

### Venue

The international workshop will be held at the Harare International Conference Centre, Harare, Zimbabwe.

### Resource Persons

Resource persons for the workshop will comprise eminent experts from various countries.

### The Organisers

#### NAM S&T Centre

The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre; [www.namstct.org](http://www.namstct.org)) is an inter-governmental organisation with a membership of 48 countries spread over Asia, Africa, Middle East and Latin America. The Centre was set up in 1989 in New Delhi, India in pursuance of recommendations of various NAM Summit meetings for the promotion of South-South cooperation in science and technology. The Centre undertakes a variety of programmes, including organisation of workshops, symposiums, meetings and training courses and implementation of collaborative projects. It also offers short-term research fellowships to scientists from developing countries in association with the Centres of Excellence in various countries. The Centre also produces technical books and other scientific publications in different subjects. These activities provide opportunity for scientist-to-scientist contact and interaction; familiarising 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, dissemination of S&T information etc. In addition, the Centre encourages academic-R&D-industry interaction in the developing countries through its NAM S&T Industry Network.

#### Ministry of Higher and Tertiary Education, Science and Technology Development, Zimbabwe

The Ministry responsible for Science and Technology has been central to the coordination of NAM S&T Centre activities since 2012. To date, more than ten experts have benefited from this capacity building initiative.

Under the second Science, Technology and Innovation (STI) Policy of 2012, the Government of Zimbabwe is guided by six Primary Goals – a) strengthen capacity development; b) exploitation of new and emerging technologies; c) commercialisation of research outcomes;

d) search for scientific solutions to global environmental challenges; e) foster international collaborations and f) science advocacy and resources mobilization. The STI policy of 2012 also notes the need to ‘strengthen research aimed at optimising manufacturing processes through the use of biotechnology’.

### **The National Biotechnology Authority of Zimbabwe**

The National Biotechnology Authority (NBA) is a strategic arm of the Government of Zimbabwe established through the National Biotechnology Authority Act [*Chap.14.31*] of 2006. As the National Competent Authority for all biotechnology and biosafety matters, NBA advises Government on aspects of biotechnology and ensures that biosafety and biosecurity measures which minimize the impact of biotechnological processes and products on national security, human health, animals, plants and the environment are done in accordance with the provisions of the NBA Act. The NBA focuses on the following three key priority areas namely: regulation of biotechnology processes and products; supporting research and development; and public education and understanding of biotechnology, biosafety and biosecurity issues.

### **Participants**

The Training Workshop is primarily designed for researchers, academia, technologists, industry representatives, government officials, policy makers, regulators and NGOs from member states of the NAM S&T Centre, as well as other developing countries with an interest in industrial biotechnology applications.

The selection of the participants will be strictly based on merit and relevance of their current responsibilities to the subject of the Workshop as well as the quality of the extended abstract of the paper submitted by them along with the completed nomination form.

A pre-condition for participation in the Workshop is that the participants must submit the full manuscript of their papers, in **MS-Word format**, at least **14 days** before the commencement of the programme.

### **Submission of Application**

Scientists and professionals desirous of participating in the Workshop, with the exception of those from Zimbabwe, are required to submit their [nomination forms](#) **electronically** directly to the NAM S&T Centre as early as possible but latest by **Friday, 21<sup>st</sup> July, 2017**.

However, Zimbabwean scientists and professionals desirous of participating in the workshop should send their applications with completed documents to the Co-Chair of the National Preparatory Committee, **Dr. J Mufandaedza**, at the **National Biotechnology Authority, Zimbabwe** latest by the above stated deadline, **Friday, 21<sup>st</sup> July, 2017**. Contacts are Email: [nbazimbabwe@gmail.com](mailto:nbazimbabwe@gmail.com) or **Tel: +263 4782856/9**.

The Nomination Form should be completed in all respects, typewritten or in clear handwriting in capital letters, and no column should be left blank. The following documents must be submitted as e. mail attachments:

- i. Filled in Nomination Form (blank Form **enclosed**)
- ii. An extended (**about 2 pages**) abstract (**in MS Word format**) of the paper that is proposed to be presented by the applicant at the Workshop
- iii. A short (**maximum two pages**) CV (**in MS Word format**)
- iv. Copy of the relevant pages of the passport

**The documents at (ii) and (iii) above must be in MS Word Format; PDF or image files will NOT be accepted. Hard copies of the Nomination Form and above attachments are NOT required to be submitted.**

### **Presentation of Papers**

Each participant will be required to present a country status report and / or a research / scientific paper on any of the themes appropriate to the Workshop.

### **Publication as a Follow up of the Workshop**

A publication edited by one or more international experts and based on the training course material and the papers presented during the Workshop and also containing papers contributed by other invited 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 required to submit the manuscripts of their full country reports / scientific or research papers in **MS-word** format well in advance, but at least 14 days before the commencement of the Workshop.

### **Local Hospitality, Travel etc. within Zimbabwe**

All foreign participants will be received at the Harare International Airport, Zimbabwe and will be transported to the Hotel. Local hospitality, including accommodation, meals and local transport including airport transfers will be arranged jointly by the **Ministry of Higher and Tertiary Education Science and Technology Development and the National Biotechnology Authority of Zimbabwe** from August 21 to August 25, 2017 (i.e. commencing from one day before the workshop and for an additional day after its conclusion).

**\*\*Please note that participants will have to make their own arrangements for stay beyond these dates and therefore they are requested to book their flights accordingly.**

### **Financial Arrangements for Travel**

This is being conveyed separately to each member country of the NAM S&T Centre and other developing countries.

### **Entry Formalities, Immigration and Health**

Participants of the workshop must be in possession of a current passport and valid visa for entry into Zimbabwe. The embassies / diplomatic mission of Zimbabwe located in the country of the participants should be approached for obtaining an entry visa. If required, the organisers will facilitate the issuance of visa by providing the participants with an official letter of invitation.

### **Other Useful Information about Zimbabwe**

Climate: Average temperature ranges from 11° to 27°C.

Currency: United States dollar, Pula, British Pound, SA Rand, Zimbabwean Bond (under the multi-currency arrangement of 2009)

International Country Code: +263 Zimbabwean Standard Time Zone: GMT +2 hours.

Banking Hours: Monday - Friday (0800 to 1500hrs) and Saturday (0800 – 1130hrs).

Electricity: British 3 pin plug on 240V

### **Note\***

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

- *All expenses in the home country incidental to travel abroad, including expenditure for passports, 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 organisers 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 hospitalisation 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.*

## **Contact Details**

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

**Prof. Dr. Arun P. Kulshreshtha,**

*Director General,*

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

*Zone-6A, 2ndFloor, India Habitat Centre, Lodhi Road,*

**New Delhi – 110003, INDIA**

**Tel: +91-11-24645134, 24644974; Fax: +91-11-24644973**

***E-mail: namstcentre@gmail.com , namstct@gmail.com, namstct@bol.net.in***

***Website: www.namstct.org***

**Mr. M. Bandyopadhyay,**

*Senior Expert & Administrative Officer*

*Address, Tel. and E-mail: (O) as above.*

### **FOR ZIMBABWEAN APPLICANTS**

**Mrs. R. Karimanzira,**

*Director, Projects and Technology Transfer and NAM National Focal Point,*

*Ministry of Higher and Tertiary Education, Science and Technology Development, Zimbabwe*

*4<sup>th</sup> Floor, New Government Complex,*

*Cnr 4<sup>th</sup> St and Samora Machel Ave.,*

**Harare, ZIMBABWE**

**Tel: +263 716 801 305; +263 4 2900440**

***Email: rungano.pualt@gmail.com***

**ALT: Dr J. Mufandaedza,**

*CEO and Registrar,*

*National Biotechnology Authority,*

*21 Princess Drive,*

*Newlands,*

**Harare, ZIMBABWE**

**Tel: +263 776 901 997; +263 4 782856/9**

***Email: jmufandaedza@gmail.com, nbazimbabwe@gmail.com***

**CENTRE FOR SCIENCE AND TECHNOLOGY OF THE NON-ALIGNED AND  
OTHER DEVELOPING COUNTRIES**

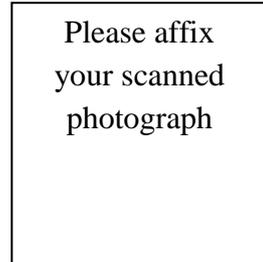
**2<sup>nd</sup> Training Workshop on  
“Industrial Biotechnology: Driving Value Addition and Beneficiation”**

**Harare, Zimbabwe**

**22-24 August 2017**

**NOMINATION FORM**

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



**SECTION –A**

(To be filled in by the nominee)

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

**(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: ..... Mobile: .....

Fax: ..... E-mail: .....

8. Full Address (Home): .....

.....

Phone: ..... Mobile: .....

Fax: ..... 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 attached on separate sheet)**

11. What in your opinion qualifies you for the participation in this Workshop?

(To be attached on separate sheet)

12. Abstract of your paper proposed to be presented in the Workshop.

**(About 1-2 pages, in MSWord; to be attached on separate sheet)**

Date: ..... Signature: .....

## **SECTION - B**

### **ENDORSEMENT BY NOMINATING AUTHORITY**

(The Applicant in a member country of the NAM S&T Centre may get the following endorsement signed by the Focal Point of the Centre in his/her country, *if he/she wishes to take advantages accrued to the official nominee of the country*. For the list of member countries and names/addresses of the Focal Points please visit Centre's website [www.namstct.org](http://www.namstct.org))

Signature: .....

Name (in full): .....

Designation: .....

Date: .....

**SEAL**



**[NOMINATION FORM](#) (WORD FORMAT)**