Selection

The course will be offered to the participants on a first-come, first-served basis.

Residential Program

Free lodging and boarding facilities will be provided to the candidates during the training period at ICAR-CRRI, Cuttack

Who can apply?

Aspirants, preferably graduates with interest and zeal to pursue their career/start an agribusiness venture in the biofertilizer sector, can apply for this program

How to apply?

Interested candidates may apply by filling the application form with the following link
https://forms.gle/EbJrky3vrwj5SZmYA

- Compendium of lecture notes & Certificates will be provided to each participant on successful completion of the program

Program/Course Director

Dr. Upendra Kumar

Senior Scientist
Crop Production Division
ICAR-CRRI, Cuttack

Program/Course Coordinator

Dr. Biswajit Mondal

Principal Scientist
Social Science Division
ICAR-CRRI, Cuttack

For registration & more details, contact

Dr. Sai Krishna Repalli

Research Associate
Jaiva Poshak
ICAR-CRRI, Cuttack, Ph. 9938996514

Ms. Shruti Snata Panda

Business Executive
Agribusiness Incubation (ABI) Centre
ICAR-CRRI, Cuttack, Ph. 9938515123

Director

Dr. MJ Baig

ICAR- Central Rice Research Institute
Cuttack-753006, Odisha, India
Website: https://icar-nrri.in/abi-unit/
E. mail: nrribioposhak@gmail.com

Entrepreneurship Development Training Program on CRRI Biofertilizers (Batch-I)

26 May- 02 June 2025

Sponsored by

'Production, Popularization and Supply of Quality Bioinoculants for Rice-based Cropping and Farming System of Odisha' (Jaiva Poshak- ଜୈବ-ପୋଷକ EAP- 416)

Organised by

Agribusiness Incubation (ABI) Centre
ICAR- Central Rice Research Institute (CRRI), Cuttack

Scope of the program

Biofertilizers contain living microorganisms that colonize the rhizosphere or interior of the plant and promote growth by increasing the supply or availability of primary nutrients to the host plant when applied to seed, plant surfaces, or soil. They are a viable alternative to chemical fertilizers because they add nutrients through natural processes such as phosphorus solubilization, nitrogen fixation, and stimulate plant growth through the synthesis of growth-promoters. Biofertilizers are cost-effective and serve as renewable sources of plant nutrients, which supplement chemical fertilizers. Different types of biofertilizers are available, such as nitrogen-fixing, phosphate-solubilizing, potash-mobilizing, etc.

Increasing environmental hazards on agriculture due to excessive usage of chemical fertilizers, coupled with support from the government and regulatory bodies through various policies issued for producing biofertilizers, is one of the major factors expected to drive the demand for biofertilizers in the coming years. However, the slow effects of biofertilizers over chemical fertilizers and low adoption of biofertilizers are expected to hamper market growth.

The growing use of biofertilizers in developing and emerging economies such as India is expected to create new opportunities for the biofertilizer industry in the coming years. As a result, the goal of this training programme is to provide a better opportunity to learn about different aspects of biofertilizers, such as rice-specific bioinoculants (Azotobacter, Blue green algae, Azolla, and phosphate-solubilizing bacteria); CRRI biofertilizer products such as NRRI Endo-N, NRRI Endo-NPK, NRRI Tech Decomposer, Rhizobium, Trichoderma, etc., their culture and production practices, along with entrepreneurship opportunities prevailing in this field, will be dealt in detail.

Tentative schedule

Date	Session I 10.00 am -11.30 am	Session II 11.30 am -1.00 pm	Session III 2.30 pm -4.00 pm	Session IV 4.00 pm -5.30 pm
26.05.25 (Monday)	Inauguration	Introduction to Entrepreneurship and Motivation ***(Dr. SK Mohanty)***	Business Opportunity, Identification, Guidance associated Govt. Schemes ***(Sri. LK Paltasingh)***	Business plan preparation ***(Sri. LK Paltasingh)***
27.05.25 (Tuesday)	CRRI biofertilizer modules (Modules 1 & IV) ***(Dr. Upendra Kumar)***	Scope and importance of biofertilizers in rice-based cropping systems ***(Dr. BB Mishra)***	Entrepreneurial opportunities in CRRI liquid biofertilizers ***(Dr. SK Repalli)***	Lab, Biofertilizer Unit & CRRI visit ***(Dr. SK Repalli)***
28.05.25	***Industrial Visit***			
29.05.25 (Thursday)	Goal setting behaviour ***(Dr. GAK Kumar)***	Mother culture to packaging of rice specific liquid Biofertilizer production ***(Dr. Upendra Kumar)***	Applications of Rhizobium and Trichoderma as biofertilizer (Modules-II & III) ***(Dr. AK Mukherjee)***	Quality control & standards in biofertilizers ***(Sri Jagat Singh)***
30.05.25 (Friday)	Market analysis of Biofertilizers ***(Dr. Sashi Kant Dash)***	Economics of Biofertilizers ***(Dr. B. Mondal)***	Culturing techniques of different types of Biofertilizers ***(Dr. Upendra Kumar)***	Startups & Requirements for Start-up registration ***(Sri. R R Sahoo)***
31.05.25	***Field Visit***			
02.06.25 (Monday)	Natural and Organic Farming: Boon or Bane ***(Dr. D Chatterjee)***	Biofertilizer use & quality protocol ***(Dr. AK Mukherjee)***	Branding of rural products, marketing, and packaging of organic produce ***(Sri Bipin Rout)***	Valedictory