



CSIR Integrated Skill Initiative
Bioinoculant Production for Agriculture Application
CSIR-National Botanical Research Institute, Lucknow

Bioinoculant (biofertilizer/biopesticide) is a substance which contains living microorganisms which, when applied to seeds, plant surfaces, or soil, colonizes the rhizosphere or the interior of the plant and promotes growth by increasing the supply or availability of primary nutrients to the host plant or saves plants from pathogen and insect attack. It may constitute of bacteria/ fungi/ insects and viruses.

Application of microbial biofertilizers and biopesticides is being advocated by the Government and environmentalist for sustainable agriculture. However, both availability and quality of bio-inoculums is confined to limited areas. Besides, there is a need to both propagate awareness and availability of the products to the farmers. In spite of the thrust given on use of biofertilizers we do not have well trained/skilled manpower to start up small biofertilizer units. Therefore, we propose to develop a Skill Development course in “Bioinoculant Production for Agriculture Application”. The proposal goes by the NSDC mandate to “Creating more non-agricultural jobs (Agriculture Allied services)”.

CSIR-NBRI invites applications for the Non-residential skill development programme on “Bioinoculant Production for Agriculture Application” for to “Creating more non-agricultural jobs (Agriculture Allied services)”

Title of the course	:	Bioinoculant Production for Agriculture Application
Duration	:	Three months
No. of seats	:	10 to 25
Educational qualification	:	Graduates in Science/ Agriculture/ Botany/ Zoology/ Microbiology/ Biotechnology
Age group	:	20-35 years
Course fee	:	Rs. 5,000 (Rs. 20,000 for industry sponsored)
Venue of the course	:	CSIR-National Botanical Research Institute, Lucknow
Date of commencement	:	

SALIENT FEATURES OF THE COURSE

The skilled personal will get opportunity in biofertilizer and biopesticide industries and self employment, addressing the issues of employment to undergraduates. Under this program, hands-on training would be provided in the field of Biofertilizer production Technology which will provide the following benefits

- Address the skill gaps in the field of biofertilizer/biopesticide production
- Generation of employment
- Generation of awareness for biofertilizers and biopesticides use
- Help in self employment and giving impetus to entrepreneurs

EVALUATION OF THE PARTICIPANTS

The evaluation will consist of the following components:

a. Theory

- Assignments throughout the course : 20 marks
- Mid- term examination : 30 marks
- Final examination : 50 marks

b. Practical

- Guided experiments : 30 marks
- Unguided experiments : 70 marks

CERTIFICATION

Certificate will be issued to the successful candidates by the institute under CSIR Integrated Skill Initiative.



For further details, please contact;
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