

**Center of Innovative and Applied Bioprocessing (CIAB)**

**&**

**National Agri-Food Biotechnology Institute (NABI)**

(An autonomous institutes of Dept. of Biotechnology,

Ministry of Science & Technology, Govt. of India)

Sector-81, Knowledge City, Manauli P.O, S.A.S. Nagar-140306, Punjab, India.

Website: [www.ciab.res.in](http://www.ciab.res.in) & [www.nabi.res.in](http://www.nabi.res.in)

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**Walk-in interview for the temporary positions of Project scientist (PS) under a GOI R&D project.**

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Center of Innovative and Applied Bioprocessing (CIAB) and National Agri-Food Biotechnology Institute (NABI) are the Institutes of Department of Biotechnology, Government of India and sharing a single campus. CIAB works mainly on secondary agriculture and development of value-added products from different types of bioresources. NABI aims at catalyzing the transformation of Agri-food sector in India by being a nodal organization for knowledge generation and translational science leading to value-added products based on Agri-Food biotech innovations for improved household nutritional security. CIAB-NABI requires following research personnel purely on temporary basis. Candidates of Indian nationality are invited to appear for the **Walk-in interview** for project appointment under the following project. The duration of the project is till December 31, 2020 and the positions will renewed on yearly basis depending on the performance or fund flow, whichever is earlier.

<b><u>R&amp; D Project</u></b>	Development and validation of technology for production of high energy density biocoal from rice straw and other agri-biomasses.
<b><u>Funding agency</u></b>	Government of India (GOI)
<b><u>Name of the project investigators</u></b>	Dr. T. R. Sharma, CEO, CIAB and Executive Director, NABI Dr. Joy K Roy, Scientist-F, NABI
<b><u>Deptt./Centre</u></b>	CIAB-NABI
<b><u>Project duration</u></b>	Till 31/12/2020

**Project Summary:-**

The vast generation of rice straw residues creates a problem for the farmers, and a significant portion is burnt in the field, alleviating environmental pollution and health problem. In this context, the project aims in utilizing the rice straw or other agri-wastes residues to produce final torrefied solids (biocoal) for the purpose to be co-fired along with fossil coal in thermal power boiler. The R&D project is an Indo-Sweden collaborative work to demonstrate the processing technology of rice straw using a pilot plant (raw biomass to final product package and storage), with a capacity of 150 kg/hr is being installed in CIAB and NABI premises. The

project comprises of the following work components: initial process verification preferably using rice straw (grinding, leaching, pelletization, torrefaction, cooling, briquetting, packaging and storing), optimization of process conditions through simulation trials, biochemical testing of the technology on rice agri-wastes residues (mainly rice straws); effect of different rice varieties and types on process, and its process optimization. It is a purely R & D project on technology demonstration and optimization under Indian conditions.

### **(A) Project Scientist (Electrical Engineering) – one position**

#### **Work responsibility:-**

1. Overall plant operations and maintenance with respect to electrical components.
2. Optimization of process parameters through an artificial intelligence technique.
3. Data collection and analysis, report and manuscript writing.

#### **Essential qualifications:-**

1. The applicant should be an Indian citizen.
2. PhD in Electrical Engineering or First class in M.E/M.Tech Electrical Engineering with first class B.E/B.Tech in Electrical Engineering from a Govt. recognised University/ Institute and at least three years post-ME/M. Tech experience in the relevant area.

#### **Desirable qualification:-**

Sound knowledge in artificial intelligence (ANN/RNN/FNN/CNN), expertise in instrument control panels, etc. Preference will be given to candidates having specialization in Power System Engineering or Power Engineering Management.

#### **Age limit:-**

The upper age limit for the fellowship is 35 years at the time of the submission of application, Age relaxation of 5 (five) years will be given to candidates belonging to SC/ST/OBC/Physically Challenged & Women candidates.

#### **Emoluments:-**

Rs. 55000/-per month plus HRA.

#### **Application and Selection Process:-**

All interested candidates may appear for Walk-In Interview at National Agri-Food Biotechnology Institute (NABI) located at Knowledge City Sector-81, Mohali-140306 on **20<sup>th</sup> January, 2020(Monday) at 01:00 PM** along-with duly filled Application form (Mandatory) available on the website [www.nabi.res.in](http://www.nabi.res.in). **The duly filled application form must be submitted at the time of registration on above mentioned date from 01:00 PM to 02:00 PM.** The candidates must ascertain their eligibility before applying; as ineligible candidates will not be interviewed. All the candidates are requested to appear for the interview with full CV, thesis/project report, publications and original degree certificates and transcripts. No TA/DA will be paid for appearing in the interview. Canvassing in any form or bringing influence, political or otherwise, will lead to disqualification of the candidate(s).