



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491001

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491001

Website: [www.iitbhilai.ac.in](http://www.iitbhilai.ac.in)

Annexure - II

**Advertisement for the post of Principal Associate in IBITF funded Research Project**

Applications are invited from Indian nationals for the position of Principal associate (PA) in a IBITF funded research project with the following details:

**Title of the Project:** A Multipurpose Smart Agro-bot for Developing a Robust Data Model for Crop Condition Monitoring and Fertilizer Dispensing in Vertical Farming.

**About the project:**

The project "A Multipurpose Smart Agro-bot for Developing a Robust Data Model for Crop Condition Monitoring and Fertilizer Dispensing in Vertical Farming" aims to create an intelligent robotic system tailored for vertical farming. This agro-bot will monitor crop health and environmental conditions using advanced sensors, analyze the data with sophisticated algorithms, and precisely dispense fertilizers based on the specific needs of each plant. By integrating machine learning, the system enhances efficiency, increases crop yield, and promotes sustainable agricultural practices.

**Principal Investigator:** Purnendu Das, Designation Assistant Professor, Department Mechanical Engineering, IIT Bhilai, Kutelabhata, Khapri, Durg, Chhattisgarh- 491001 ([purnendu@iitbhilai.ac.in](mailto:purnendu@iitbhilai.ac.in)).

Name of the position	Principal Associate	Project Assistant
Number of Positions	2	1

**Essential qualifications:**

For Principal Associate :

B.Tech / B.E. with 2 years of research experience, OR, M.Tech / M.E., OR, Ph.D. in Science or Engineering or Technology in Electronics & Tele-communications Engineering, Electrical Engineering, Instrumentation Engineering or Computer Science Engineering, Agricultural Science or related areas from a recognized University or equivalent.

**Desirable:** Preference will be given to candidates with research / project / working experience relevant to the domain of **instrumentation / sensor / circuits / data science/** Agricultural Science or related areas. Candidates with expertise in the followings are strongly encouraged to apply:

- 1) Expertise in Python and/or MATLAB
- 2) Experience / Familiarity with Sensors, Instrumentation, Machine Learning, Data science.
- 3) Experience in Image processing / Impedimetry / Circuit design.

**Age limit:** 35 years

**Salary:** Salary: Rs.37,000/- + HRA per month.



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**For Project Assistant :**

B.Tech / B.E. from relevant discipline

**Desirable:** Preference will be given to candidates with research / project / working experience relevant to the domain of **instrumentation / sensor / circuits / data science/** Agricultural Science / Robotics or related areas.

**Age limit:** 35 years

**Salary:** Salary: Rs.25,000/- + HRA per month.

**Duration:** The position is temporary for a period of 11 month or the end of the project whichever is earlier.

**How to apply:** Interested candidates must apply on the application form attached with this advertisement. The duly completed application form along with candidate's resume must be mailed or emailed to the PI so as to reach him by 23/06/2024. Only shortlisted candidates will be called for interview. The positions are available immediately.

**Due date:** The application must reach the PI, **Purnendu Das** ([purnendu@iitbhilai.ac.in](mailto:purnendu@iitbhilai.ac.in)), by 23/06/2024.

**Terms & Conditions:**

- i. No TA/DA will be provided to the candidate for the interview.
- ii. The PI shall not be responsible for postal/courier delay if any, or any other reason for non-receipt of the document at the specified time and will result in disqualification/rejection of the application.
- iii. The decision of the selection committee will be final.
- iv. If the number of shortlisted candidates called for the interview is large, the selection committee may decide to restrict the number of candidates for the interview to a reasonable limit after considering qualifications and experience over and above the minimum prescribed in the advertisement.
- v. The appointment of the candidate will be governed by the terms and conditions of the Institute/funding agency particularly applicable to the said project as and when required.
- vi. The selected candidate will have to join duty immediately on receipt of the offer.
- vii. The fellowship may be terminated with a 30-day notice before completion of the tenure if performance till date is not deemed satisfactory.