



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491001

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491001

Website: www.iitbhilai.ac.in

Annexure -II

Advertisement for JRF / SRF Position in SERB funded Project

Applications are invited from highly motivated and eligible candidates for the position of **Junior Research Fellow (JRF) / Senior Research Fellow (SRF)** (as applicable) in a **SERB funded Research Project**.

Title of the Project: Development of a Data-driven Fruit Ripening Detector based on Bio-Impedance of Senescent Fruits: Mangoes and Papaya

About the project:

The project involves creating a data-driven fruit ripening detector using bio-impedance for senescent fruits like mangoes and papayas. This likely includes designing sensors to measure the electrical properties of the fruits as they ripen, collecting and analysing data to establish ripeness patterns, and developing algorithms to accurately detect ripeness based on bio-impedance measurements. The goal is to create a reliable and efficient method for determining fruit ripeness, which can be valuable for the agriculture and food industries.

Principal Investigator: Avishek Adhikary, Designation: Assistant Professor, Department: Electrical Engineering, IITBhilai, Durg, Chhattisgarh- 491001 (avisheka@iitbhilai.ac.in).

Name of the position: Junior Research Fellow (JRF)/ Senior Research Fellow (SRF) (as applicable)

Number of Positions: 1(One)

Essential qualifications (For JRF Post):

1. Graduate with first class (minimum 60%) in
 - a. Electrical Engineering (EE)
 - b. Electronics Engineering (EEE/ETC/ECE/EIE)
 - c. Instrumentation Engineering (IN)
 - d. Data Science Engineering (DS/DSAI/AI/ML/CSE)



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e. and other allied areas

2. Qualified in any of the following National eligibility test/exam: a). GATE b). CSIR-UGC NET including lectureship (Assistant Professorship) c). National-level examination conducted by Central Govt. Departments and their agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.

Essential qualifications (For SRF Post):

1. Graduate with first class (minimum 60%) in
 - a. Electrical Engineering (EE)
 - b. Electronics Engineering (EEE/ETC/ECE/EIE)
 - c. Instrumentation Engineering (IN)
 - d. Data Science Engineering (DS/DSAI/AIML/CSE)
 - e. and other allied areas
2. M. Tech. in EE / ECE / EEE / ETC / EIE / IN / DS/ DSAI with minimum 60% marks or CGPA 6.5 or minimum 2 years of research / industry experience in relevant fields.
3. Qualified in any of the following National eligibility test/exam: a). GATE b). CSIR-UGC NET including lectureship (Assistant Professorship) c). National-level examination conducted by Central Govt. Departments and their agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.

Desirable Criteria: Preference will be given to candidates with research / project / working experience relevant to the domain of **instrumentation / sensor / circuits / data science**. 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.

Candidate will be encouraged to the Join PhD program in IIT Bhilai in EE Department under the scope of the Project Funding if he /she is interested.

Age limit: **28 years** on the last date of application, with relaxation to SC/ST/OBC candidates as per Government of India norms. (**for JRF Position**), **32 years** on the last date of application,



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with relaxation to SC/ST/OBC candidates as per Government of India norms. (for SRF Position)

Salary: Rs. 37000 + HRA (for JRF).

Rs. 42000 + HRA (for SRF).

The fellowship will be governed as per the SERB rule and the availability of the fund.

Duration: Initial appointment will be for one year, which is extendable up to the duration of the project (about 3 years) solely based on performance.

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 15/05/2024. Only shortlisted candidates will be called for the interview. **The positions are available immediately.**

Due date: The application must reach the Principal Investigator, Avishek Adhikary (avisheka@iitbhilai.ac.in), by 5:00 PM on May 15, 2024.

Terms & Conditions:

- No TA/DA will be provided to the candidate for the interview.
- 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.
- The decision of the selection committee will be final.
- 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.
- 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.
- The selected candidate will have to join duty immediately on receipt of the offer.
- The fellowship may be terminated with a 30-day notice before completion of the tenure if performance till date is not deemed satisfactory.