



# भारतीय प्रौद्योगिकी संस्थान भिलाई

जी. ई. सी. कैम्पस, सेजबहार, रायपुर - ४९२०१५  
छत्तीसगढ़, भारत

## Indian Institute of Technology Bhilai

GEC Campus, Sejbahar, Raipur - 492015  
Chhattisgarh, India  
Phone # 0771-2973600/602

### **Advertisement for the post of Junior Research Fellow in a SERB-funded Research Project**

Applications are invited from Indian nationals for the position of 'Junior Research Fellow' in a SERB funded research project with following details:

**Title of the project:** *Real-time Estimation of Core Body Temperature based on Noninvasive Measurements: Towards Development of a Reliable and Low-cost Device for Heat Stroke Prevention and Healthcare Monitoring*

**Principal Investigator (PI):** Dr. Udayraj, Assistant Professor, Room 305, Department of Mechanical Engineering, IIT Bhilai, GEC Campus, Sejbahar, Raipur, Chhattisgarh- 492015 (Mob: +91-7048971450; email: [udayraj@iitbhilai.ac.in](mailto:udayraj@iitbhilai.ac.in))

**Name of the position:** Junior Research Fellow

**Number of Positions:** 01

**Essential qualifications:** 1. BE/BTech (or equivalent Degree) in Mechanical/Production/Aerospace/Electrical/Electronic Engineering from a recognized institute/university or statutory body OR equivalent degree with a minimum of 60% aggregate score (6.5 grade points on a scale of 10); For SC/ST category, the candidate must have secured a minimum of 55% aggregate score (6.0 grade points on a scale of 10).

2. Should have qualified through GATE or CSIR-UGC NET

**Desirable:** Preference will be given to candidates with working experience relevant to the project. Candidates with **one or more of the followings** skills are strongly encouraged to apply:

1. Strong coding skill: C/C++ or MATLAB or Fortran etc.
2. Knowledge of numerical methods
3. Knowledge of heat transfer and related simulation work
4. Knowledge of mathematical tool(s) for stochastic estimation from noisy sensor measurements like Kalman filter

**Age limit:** 30 years

**Salary:** Rs. 31,000/- per month + HRA (as applicable)

**Duration:** One year or up to the termination of the project, subject to half-yearly performance review.

**How to apply:** Interested candidates must apply on the application form attached with this advertisement. Duly completed application form along with candidate's detailed CV must be e-mailed to the PI, Dr. Udayraj at [udayraj@iitbhilai.ac.in](mailto:udayraj@iitbhilai.ac.in) to reach him by **Sunday, 31<sup>st</sup> January 2021**. Only shortlisted candidates will be called for interview and no TA/DA will be paid for attending the interview. Candidates should make their own arrangements for stay. The position is available immediately.



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**Due date:** The application must reach the PI, Dr. Udayraj, through email, by **Sunday, 31<sup>st</sup> January 2021 (on or before 05:00 PM)**.

### Conditions:

- i) No TA/DA will be provided to the candidate for the interview. Considering the situation, there is possibility that the interview may be conducted in online mode.
- ii) The PI shall not be responsible for any technical 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.