



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491001

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491001

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

**Advertisement for the post of JRF (Sponsoring Agency- IBITF) funded Research Project**

Applications are invited from Indian nationals for the position of JRF in an IBITF Project funded research project with the following details:

**Title of the Project:** Recommendation System for Vibration Analysis of Motors using Machine Learning

**Principal Investigator:** Dr. Shailendra Kumar Designation Assistant Professor from the Department Electrical Engineering, respectively from IIT Bhilai, Chhattisgarh- 491001 ([skumaree@iitbhillai.ac.in](mailto:skumaree@iitbhillai.ac.in)). For other details and the project team, please visit the homepage-

and <https://iitbhillai.ac.in/index.php?pid=skumaree>

**Name of the position:** JRF

**Number of Positions:** 02

**Essential qualifications:**

1. MTech/ME/MS in Electrical Engineering/Mechanical Engg. or related topics with a minimum of 60% aggregate score.
2. Qualified in any of the following points:
  - a. GATE qualification
  - 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
  - d. 2 years of professional experience

**Desirable:** This is a leadership position involving effective overall management of the project through its completion. Lead the project's administrative aspects and coordinate team members' activities to achieve desired results. Ability to work independently with limited supervision and support efficient project implementation. The ability to work under pressure and meet tight deadlines is also desired. Strong interpersonal communication and excellent oral presentation, preparation of reports, and project-related correspondence with all the stakeholders. Strong background in academic setups. Coordination with internal stakeholders of the institute Preference will be given to the candidates' working experience relevant to the project. Candidates with expertise in the following are strongly encouraged to apply Expertise in Design of Electrical machines, vibration analysis of machines, machine learning algorithms, support vector machine with vibration characterization techniques and analysis.





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Candidates with expertise in the following areas are also strongly encouraged to apply:

- 1) Expertise in Python and C++ and/or MATLAB
- 2) Experience in digital control, Electrical machines, specifically in support vector machine with vibration characterization
- 3) Desirable: Experience in vibration analysis of machines
- 4) Leadership and management quality (experience in organizing workshop, seminars)
- 5) Expertise in technical writing and research publication.

**Age limit:** 35 years

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

**Duration:** The initial appointment will be given for six months and is extendable based on performance. This is also subject to the availability of the funds for the project (Total project duration of 1 years).

**How to apply:** Interested candidates must apply on the ‘**application form**’ attached to this advertisement. Duly completed ‘**application form**’ along with the candidate’s resume must be mailed or emailed to the PI, Dr. Shailendra Kumar, at [skumaree@iitbhillai.ac.in](mailto:skumaree@iitbhillai.ac.in) to reach by 19<sup>th</sup> May 2025. Applications without the ‘**application form**’ shall not be considered. Only shortlisted candidates will be called for an **online/offline**\* [\*depending on the situation] interview depending on the situation. The positions are available immediately.

**Due date:** The application must reach the PI, Dr. Shailendra Kumar ([skumaree@iitbhillai.ac.in](mailto:skumaree@iitbhillai.ac.in)), by 19<sup>th</sup> May 2025 (on or before 5.00 pm).

## 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 candidate’s appointment 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 upon 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.