



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491001

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491001

Website: www.iitbhilai.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: Digital Twin and Degradation Prognostics of Energy Storage Systems for Actuarial Analysis

Principal Investigator: Dr. Raghavender Medishetty and Dr. Shailendra Kumar Designation Assistant Professor from the Department of Chemistry and Electrical Engineering, respectively from IIT Bhilai, Chhattisgarh- 491001 ((raghavender@iitbhilai.ac.in, skumaree@iitbhilai.ac.in). For other details and the project team, please visit the homepage-

<https://www.iitbhilai.ac.in/index.php?pid=raghavender>

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

Name of the position: JRF

Number of Positions: 02 (01-Chemistry and 01- Electrical Engg.)

Essential qualifications:

1. MSc from Chemistry/Physics/Materials Science/Nanoscience or BTech from Materials science/Nanotechnology or related topics with a minimum of 60% aggregate score (6.5 grade points on a scale of 10) or For SC/ST category, the candidate must have secured a minimum of 55% aggregate score (6.0 grade points on a scale of 10).

or

Graduate in Electrical Engineering/Electronics and Communication/Instrumentation with at least 1 years of industry/research experience or M.Tech/ME/MS in Electrical Engineering/Electronics and Communication/Instrumentation or related areas.

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



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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 EV battery, Electrochemistry of the battery, metal-ion battery, charging/discharging based characterization techniques and analysis.

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, digital communication, specifically in battery management system
- 3) Desirable: Experience in Data Analytics
- 4) Leadership and management quality (experience in organizing workshop, seminars)
- 5) Expertise in technical writing and research publication.

Age limit: 28 years

Salary: Rs. 31,000/- 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 3 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. Raghavender Medishetty, at raghavender@iitbhilai.ac.in and PI, Dr. Shailendra Kumar, at skumaree@iitbhilai.ac.in to reach by 21st Jan 2024 (on or before 5.00 pm). 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 Dr. Raghavender Medishetty, at raghavender@iitbhilai.ac.in, and Dr. Shailendra Kumar (skumaree@iitbhilai.ac.in), by 21st Jan 2024 (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.



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- 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.