



भारतीय प्रौद्योगिकी संस्थान इंदौर

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IIT Indore

Dated: 17/09/2024

### Advertisement for a JRF Position in SERB-ANRF funded project

Applications are invited from motivated and eligible candidates for a JRF position in the SERB-ANRF funded research project **Development of pyrocatalytic NBT-based materials for degradation of organic pollutants in wastewater**

**Brief description of the project:** Development of lead-free ceramics compositions and further chemical modification to improve the pyroelectric and pyrocatalytic efficiency. Fabrication of ceramics via powder metallurgy process and used them for the energy harvesting and water treatments. Demonstration of the device/prototype based on best suitable composition for the real-time wastewater treatment.

#### Eligibility:

(I) M. E. or M. Tech. or equivalent degree in **Materials Science/Thermal /Ceramics Engineering/Mechanical Engineering or relevant engineering discipline** (with at least 60% marks or first class or equivalent). Candidates should have a sound knowledge of the materials science, ceramics, and energy materials (such as piezoelectric and ferroelectrics). **A GATE qualification is mandatory, but a valid GATE is not required.**

**OR**

(II) Four-year bachelor's degree OR five-year integrated degree in the Mechanical Engineering/ Ceramics Engineering (with first division as defined by the awarding Institute/ University) **AND valid GATE score. NOTE: Candidates without a valid GATE score in this category can also appear for JRF interview, but registration for Ph.D. program will only be possible after they qualify for GATE.**

**Duration:** The appointment will be for 1 year initially, and based on the performance of the candidate, tenure can be extended up to three years.

**Admission to PhD Program:** Candidates may also be considered for admission to the Ph.D. program under FA category depending upon the eligibility criteria given by the Department of Mechanical Engineering, IIT Indore.

**Stipend:** (i) Rs 37,000/- per month (for first two years) + HRA as per funding agency norms.  
(ii) Rs 42,000/- per month (for third year) + HRA as per funding agency norms.

#### How to Apply:

- Interested candidates are requested to apply for the position through Google form: <https://forms.gle/CaqqM5rMUydA1TFx6>
- The last date for submitting the application form is **October 18, 2024.**
- The CV should include details of academic grades starting from 10th standard onwards with details of the year of passing, institute/university/college, etc., and work experience and nature of work if applicable.
- Incomplete applications will be rejected.
- For any technical problem with submitting the application please write to **spatel@iiti.ac.in**

**Selection process (online interview):** Only shortlisted candidates will be called for an interview. Selected candidates will be intimated by email for an interview. No TA/DA will be paid for appearing in the interview. Interviews are likely to be conducted around **October 23, 2024.**