



Advertisement for the post of Junior Research Fellow (JRF)

Applications are invited for the post of **Junior Research Fellow (JRF)** in a **Ministry of New and Renewable (MNRE), Government of India**, sponsored project under the aegis of **National Green Hydrogen Mission**. The project is titled **“Hydrogen Explosions – Developing Phenomenological Models from Fundamental Experiments”** sanctioned for a total duration of 3 years. The post is purely **temporary and co-terminus** with the project.

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| Name of Position | Junior Research Fellow |
| No. of Positions | 01 |
| Duration of the Position | Initially for 01 year but extendable up to 02 more years or the duration of the project whichever is earlier based on the performance |
| Emoluments | Rs. 39370/- for 1 st and 2 nd year and Rs. 44450/- for 3 rd Year. |
| Educational Qualification | <p>Essential qualifications: B.E./B.Tech. in Mechanical Engineering or any allied branches in First Division with GATE/NET.</p> <p style="text-align: center;">OR</p> <p>M.E./M.Tech. in Mechanical Engineering or any allied branches with First Division both at Graduate and Post Graduate level. A Valid GATE score is required.</p> <p>Desirable qualifications:</p> <ol style="list-style-type: none"> 1) Candidates should have decent experience in CFD (OpenFoam) and HPC with demonstrated projects/ work experience. 2) A good grasp of fundamentals in combustion, fluid mechanics and mathematics is desirable 3) Background in combustion and fluid mechanics experimental research is desirable. Visualization techniques like Schlieren etc, 4) Some experience in image processing and coding in Matlab. <p>The candidate with the above-mentioned qualifications will be given preference.</p> |
| Age Limit | Upper age limit – 28 years (5 years' relaxation for Female/SC/ST/ Physically Handicapped Candidate) |
| Last date of receiving the application | Applicants should apply within 25 days of the advertisement |

Note: The candidate may have an opportunity to pursue a Ph.D. in Mechanical Engineering while serving as a Junior Research Fellow (JRF) in the Mechanical Engineering Department at IIT (BHU), Varanasi.

Application Procedure: Interested candidates are requested to submit their applications in the prescribed format as attached, along with self-attested copies of all mark-sheets & certificates and details of any research or other experience, etc., **(in a single PDF file)**, using the following google form link: <https://forms.gle/9SmjdvwZcJv36Kmf9> within 15 days of this advertisement. **No need to send the hard copy or email.**

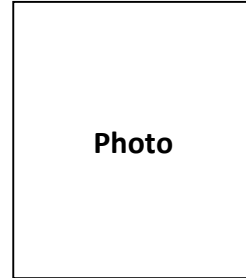
General Terms and Conditions:

- 1) Only shortlisted candidates will be communicated to appear in the interview, and no other communication in this regard will be entertained.
- 2) The date of the interview will be communicated via email to the shortlisted candidates.
- 3) **No TA/DA will be paid if called for an interview.**
- 4) The PI has the discretion to restrict the number of candidates to be called for interview to a reasonable limit on the basis of qualification and experience higher than the minimum prescribed in the advertisement.



APPLICATION FOR JRF POSITION

1. Full Name:
2. Date of Birth:
3. Sex: M/F
4. Category: GEN/SC/ST/OBC
5. Physically Handicapped: Y/N
6. Marital Status:
7. Nationality:
8. Names of Father and Mother:
9. Address of Correspondence (including phone No):
10. E-mail Address:
11. Academic Record: (a) GATE/ CSIR - NET qualification details with percent marks/Rank, year of qualifying, etc.:
(b) Qualifying Degree (starting from High School or equivalent):



| Degree | School/University | Passing Year | Subjects | Percentage/CGPA | Division | Remarks |
|--------|-------------------|--------------|----------|-----------------|----------|---------|
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12. Details of the project carried out (if any) with duration, place of work, area worked on, mentor/guide's name, description of the project and contribution to the project (in not more than 5 sentences), and publication details (if any):
13. Whether currently employed:
14. Time required to join this position:
15. Names and addresses of two referees along with phone numbers and e-mail addresses:

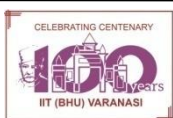
Declaration

I hereby declare that I have carefully read and understood the instructions and particulars of this application and that all entries in this form as well as in the attached sheets are true to the best of my knowledge and belief.

Date:

Place:

Signature





Application Instructions:

- All original certificates need to be presented before the interview for verification.
- The self-attested copies of all the relevant certificates/documents need to be submitted during the application (in soft copies).
- Mode of Interview: Shortlisted candidates will receive details via email.
- For further clarification regarding the application process, the candidate may contact the PI on email: anubhav.mec@iitbhu.ac.in
- The application should be according to **the attached format**.
- Use the following link to apply: <https://forms.gle/9SmjdvwZcJv36Kmf9>