



**Advertisement for the post of JRF in a SERB-funded Research Project**

Applications are invited from suitable candidates for Junior Research Fellow (JRF) to work on the research project sponsored by DST-SERB (CRG/2022/006481), under the supervision of **Dr. Harpreet Singh (PI), Department of Mechanical Engineering, NIT Jalandhar**

**Title of the project:** Development, Characterization and Analysis of Hybrid Chemomechanical Magnetorheological Abrasive Finishing for Biomedical Applications

**Duration of the project:** 3 years (till 17<sup>th</sup> July 2026)

*Initial appointment (ON PURELY TEMPORARY BASIS) is for one year, which is extendable up to three years or project durations whichever is earlier based on the performance.*

**Project position and Number:** JRF (01)

**Fellowship amount:** Rs. 31,000/- for first two years and 35,000/- for third year + HRA as per institute/project norms.

**Eligibility requirements:** GATE qualified candidates with M.Tech Mechanical Engineering or equivalent in Manufacturing Technology/ Production Engineering/Mechatronics or related branch with B.Tech/B.E. in Mechanical Engineering or allied areas.

**The GATE qualification can be relaxed for experienced and exceptional candidates**

**Desirable Knowledge:** Knowledge of materials, machine development/programming, modeling software, MATLAB/Python, mechatronics, and Finite Element Analysis.

**Age Limit:** Preferably below 40 years, age relaxation may be given to experienced, exceptional or PhD candidates

**Job Profile:** In this project, selected candidate will be working on:

- I. Design and development of microwave processed magnetic abrasives
- II. Development of software module for CMMRAF
- III. Experimentation and Optimization of CMMRAF variables
- IV. Analysis of collected data and development of suitable process models

Interested candidates with the above-mentioned qualification can send the applications in the given format, including a cover letter and resume with detailed information about the educational qualifications, research experience and published research papers if any in the prescribed format in a single pdf file, by ~~17<sup>th</sup> Nov 2023~~ **15<sup>th</sup> December 2023** to the **Principal Investigator, Dr. Harpreet Singh** via **email: singhh@nitj.ac.in**

***Please use subject line: Application for JRF position.***

Please note that only shortlisted candidates will be informed for interview to be held online.

Selected candidate may be permitted to register for Ph.D. program at NIT Jalandhar subject to the fulfillment of Institute norms.

**Note:**

- ❖ The appointment of the JRF will be purely temporary/ ad-hoc /contractual basis and valid for the above period as mentioned above or until the services are required by the Project PI, whichever is earlier.
- ❖ The services of the JRF will be liable to termination at any time without any notice and without assigning any reason.
- ❖ The appointment shall be specifically for the aforesaid project and staff member will not have any claim / right on any post in the Institute.
- ❖ Only short-listed candidates will be communicated to appear in the interview and no other communications in this regard will be entertained.
- ❖ Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be short listed based on their merit and as per the requirement of the project.
- ❖ LAST DATE OF SUBMISSION OF ONLINE APPLICATION IS ~~17.11.2023~~ 15<sup>th</sup> DECEMBER 2023.
- ❖ Candidates need to mail their documents (in a single pdf file) along with the application form to **singhh@nitj.ac.in** mentioning subject in email: “APPLICATION FOR THE JRF POSITION”.
- ❖ Hardcopy of the application form and documents are not required for applying the post. However, selected candidate is required to bring all original documents along with them at the time of joining for verification.
- ❖ The shortlisted candidates will be called to appear in the interview (Online) which is likely to be scheduled in the third week of Decemebr 2023. The information of interview will be communicated through email only provided in the application.

**Dr Harpreet Singh**

**(Principal Investigator)**

Assistant Professor

Department of Mechanical Engineering

Dr B R Ambedkar National Institute of Technology

G.T. Road, Amritsar Bypass,

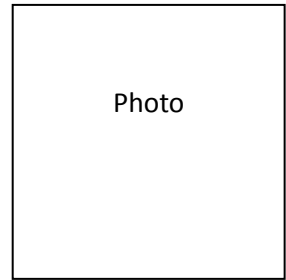
Jalandhar (Punjab), India – 144027

Email ID: [singhh@nitj.ac.in](mailto:singhh@nitj.ac.in)

Mobile No.: +91-8054206516

**Application form for Junior Research Fellow**  
**Research Project Sponsored by SERB (CRG/2022/006881)**

1. Name of the applicant (in full block letters):
2. Father's/Mother's/Guardian's/Husband's Name:
3. Date of birth:  
Sex (Male /Female):  
Marital status (single/married):  
Category: SC/ST/OBC/PWD/General:
4. Address of communication:  
Mobile no: \_\_\_\_\_ Email: \_\_\_\_\_
5. Educational Qualifications:



(From 10th or equivalent onwards, self-attested copies to be enclosed)

Examination passed	Year of passing	University/Board	Division/ Class % of Marks*	Subjects

6. Professional Experience (if any)

S. No.	Designation	Name of Organization	Period		Nature of Work
			From	To	

7. Research Publication (if any):
8. Awards, patents, prizes etc (if any):
9. Any other information relevant to the post (if any):
10. GATE/NET/Any other: Qualified (Yes/No): Score: \_\_, Rank: \_\_\_\_\_, Year \_\_\_\_.  
Specialization:
11. Interest in joining the post:
12. Contact details of two referees:  
 (1) Name : .....Designation..... Organization..... Email.....  
 (2) Name : .....Designation..... Organization..... Email.....

DECLARATION: I do hereby declare that the above information furnished by me are true and correct to the best of my knowledge.

Place:

Date:

Signature of the applicant

List of enclosures: