



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/2022/006881), under the supervision of **Dr. Narendra Kumar (PI), Department of Industrial and Production Engineering, NIT Jalandhar**

Title of the project: Development of Automated Deposition Head for 3D Printing of Continuous Fibre Reinforced High-Performance Polymer Composites

Duration of the project: 3 years (till 6th March 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 additive manufacturing, 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 automated deposition head for 3D printing of continuous fibre using robotic arm
- II. Development of software module for robotic arm
- III. Optimization of printing variables
- IV. Fabrication of different high performance polymer composites using resin and fibre

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 **12th May 2023 to the Principal Investigator, Dr. Narendra Kumar** via email: **kumarn@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 12.05.2023.
- ❖ Candidates need to mail their documents (in a single pdf file) along with the application form to **kumarn@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/last week of May 2023. The information of interview will be communicated through email only provided in the application.

**Dr Narendra Kumar
(Principal Investigator)**

Assistant Professor

Department of Industrial and Production Engineering

Dr B R Ambedkar National Institute of Technology

G.T. Road, Amritsar Bypass,

Jalandhar (Punjab), India – 144027

Email ID: kumarn@nitj.ac.in

Mobile No.: +91-7987583937