



मौलाना आजाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल

भोपाल, मध्य प्रदेश, 462003

Maulana Azad National Institute of Technology Bhopal

Bhopal, Madhya Pradesh, 462003

Advertisement for Walk-in Interview for Junior Research Fellow (JRF)

(Adv No.: MECH/2026/SEP/00272 Dated: 19/09/2026)

File Number: ANRF/IRG/2025/001701/ENS

Date: 19th September 2026

Applications are invited from **highly motivated, dynamic, and research-oriented candidates** for the position of **Junior Research Fellow (JRF)** (for 2 years), extendable to **Senior Research Fellow (SRF)** (for 1 additional year based on performance), under a research project entitled “**3D-Printed Dual-Functionally Graded Scaffold with Piezoelectric and Self-Healing Properties for Autonomous Bone Regeneration and Critical Bone Defect Repair**” funded by the Department of Science and Technology (DST)-Anusandhan National Research Foundation (ANRF) for a duration of 36 months vide sanctioned file no. ANRF/IRG/2025/001701/ENS dated 21/08/2026.

The details of the position are given below:

Name of the Post	Junior Research Fellow (JRF)
Number of Posts	1 (One)
Principal Investigator (PI)	Dr. Emon Barua Assistant Professor Department of Mechanical Engineering Maulana Azad National Institute of Technology (MANIT) Bhopal, Madhya Pradesh, India – 462003 Mobile: +91-9577839402 Email: emon.barua@manit.ac.in
Age Limit	Should not be over 33 years as on the date of advertisement. There may be age relaxation as per the Government of India (GOI) rules for SC/ST/ OBC/ Women and physically handicapped candidates.
Tenure of Project	Initially for 2 years, extendable up to 3 years based on performance and project requirements. (The total project duration is 3 years. During the 1st and 2nd years, the candidate will be appointed as a Junior Research Fellow (JRF). In the 3rd year, the candidate will be promoted to Senior Research Fellow (SRF) (subject to eligibility and performance).
Essential Qualification	M.E./ M.Tech/ M.Sc in Mechanical / Biomedical / Production / Material science / Manufacturing Engineering / Physics / Chemistry or in a relevant specialization. OR Candidates with a B.Tech./B.E. or an Integrated Professional Degree in the relevant field of expertise are also eligible to apply, provided they have secured a minimum CGPA of 7.5 on a 10-point scale and qualified in GATE Examination.



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Desirable Skills	Candidates with one or more of the following will be preferred: ➤ Experience in extrusion-based 3D printing/additive manufacturing. ➤ Proficiency in CAD modelling, FEA, DOE/optimization, or related computational tools. ➤ Knowledge of biomaterials, bone scaffolds, tissue engineering, or biomedical engineering. ➤ Hands-on experience with polymer/polymer-composite materials and scaffold fabrication. ➤ Familiarity with hydroxyapatite and piezoelectric materials. ➤ Knowledge/experience of self-healing polymers, coatings, microcapsules, or functional materials. ➤ Experience in materials and mechanical characterization techniques. ➤ Good scientific data analysis, technical writing, and interdisciplinary research skills.
Job Description	The candidate will be primarily responsible for conducting experimental and analytical research in the areas of 3D-printed biomaterials, functionally graded scaffolds, piezoelectric materials, and self-healing systems for bone regeneration and critical bone defect repair. The work will involve the design and development of bone scaffold using 3D printing, and evaluation of their structural, mechanical, piezoelectric, and self-healing performance under relevant conditions. The candidate will be expected to set up and conduct laboratory experiments, handle relevant fabrication and characterization equipment, and perform detailed data analysis and interpretation. In addition, the candidate will contribute to CAD-based scaffold design, process optimization, prototype development, testing and validation, and support interdisciplinary research activities involving biomaterials, mechanical engineering, materials science, and biomedical engineering.
Fellowship	<i>Fellowship as per DST-ANRF Norms:</i> For Junior Research Fellow (JRF): ₹37,000/- + HRA For Senior Research Fellow (SRF): ₹42,000/- + HRA
Add-on Benefits	The selected candidate is eligible to register for Ph.D. degree at MANIT Bhopal as per the Institute Norms.
How to apply	Applicants need to first register online using the link: https://forms.gle/AVgfofnC5zFwgzeJ7 The candidates shall appear for the walk-in interview along with the filled-in application form in the prescribed format available on the institute website (www.manit.ac.in), a detailed CV and all originals and self-attested photocopies of relevant certificates mentioned in the application. <i>* Applicants are strictly advised not to provide any false or misleading information. Submission of incorrect or fabricated details may lead to cancellation of candidature at any stage of the selection process.</i>
Mode of selection process	The interview may be conducted in online/offline mode, and detailed instructions will be communicated to the candidate via email.



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Tentative date and the time of the Interview	Date of interview: 27-10-2026 Reporting Time: 10.00 AM Venue: Committee Room, Ground Floor, Mechanical Engineering Department, MANIT Bhopal.
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General Terms and Conditions:

1. During the interview, candidates must bring one set of photocopies along with the original documents of all academic certificates, including complete academic details from Class X onwards (grades/percentages, year of passing, and institution/university). They should also provide GATE details (year, discipline, and score), contact information, and a valid email ID. Relevant work experience in the related field should be clearly described.
2. Only candidates who report on or before the specified reporting time on the scheduled date will be considered for the interview. Candidates arriving after the reporting time for document verification will not be permitted to appear for the interview.
3. MANIT Bhopal has the right to cancel the recruitment for the aforesaid post at any time without providing any clarifications/information.
4. The equivalency criteria shall be determined by the committee in accordance with the rules of MANIT, and the committee's decision will be final and binding.
5. No interim correspondence will be entertained and canvassing in any form will lead to disqualification.
6. No TA/DA will be paid for attending the Interview.
7. The post is purely on a temporary basis and the Institute will not have liability whatsoever for sustaining temporary staff recruited under the above-mentioned project after its completion/termination.
8. For any queries related to the project, they may contact Dr. Emon Barua via email.

Contact:

Dr. Emon Barua
Assistant Professor and PI
Mechanical Engineering Department
Maulana Azad National Institute of Technology Bhopal - 462003.
Email: emon.barua@manit.ac.in
Contact: +91-9577839402.



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Application form for the post of JRF for ANRF -funded Research Project on "3D-Printed Dual-Functionally Graded Scaffold with Piezoelectric and Self-Healing Properties for Autonomous Bone Regeneration and Critical Bone Defect Repair"
(Adv No.: MECH/2026/SEP/00272 Dated: 19/09/2026)

Personal Details:

Name of the Applicant	
Category (Gen/EWS/OBC/SC/ST)	
Gender	
Date of Birth	
Marital Status	
Correspondence address	
Email id	
Mobile Number	

Paste Passport Size
Photo

Educational Qualifications:

Degree	Name of the Institute/University	Subjects/ Specialization	Division	Percentage	Year of Completion
BE/BTech/B.Sc					
ME/M. Tech/ M. Sc					

Professional Experience details:

Name of the Organization	Position in the Organization	Total Experience (in years)	Appointment Type (Permanent/Contractual)	Nature of Work



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Other details:

GATE/NET, examination qualification details	
Knowledge of any software/simulation tools/material synthesis/characterization techniques (give details)	
Publication details, if any	

I agree with the following terms and conditions:

- No TA/DA will be paid to attend the interview.
- The above position is purely temporary and on a contract basis and co-terminus at any time from the project without any notification.
- Continuation will depend on the satisfaction of research performance.
- If selected, I will not be permitted to claim for any regular/part-time appointments in the institute.
- Canvassing in any form will disqualify my candidature.

The filled-in application form, curriculum vitae and photocopy of the relevant documents are attached along with this form.

Date:

Place:

Signature of the Applicant