



Maulana Azad National Institute of Technology Bhopal
Department of Physics

Advertisement for Junior Research Fellow (JRF)

File Number: 3907/CST/R&D/Phys.&Engg. and Pharmacy/2025-26

Applications are invited from motivated and eligible candidates for a Junior Research Fellow position in the research project supported by M. P. Council of Science & Technology (MPCOST) sponsored research project. The details of the project are given below:

Name of the Post	Junior Research Fellow (JRF)
Number of Post	1 (One)
Age Limit	Preferably below 30 Years
Age Relaxation	Upper age is relaxable up to 5 years for SC/ST/OBC/Women and Physically handicapped candidates.
Title of The Project	Exploration of Heusler Alloys for Spintronics and Power Generation Application”
Principal Investigator	P.I.: Dr. Rajnish Kurchania Professor Department of Physics Maulana Azad National Institute of Technology (MANIT) Bhopal, Madhya Pradesh, India – 462003 ✉ Email: rkurchania@manit.ac.in Co-PI: Dr. Santanu Pakhira
Tenure of Project	Initially for 1 year (extendable up to 2 years based on performance and project needs). The project duration is two years. However, the continuation from the first to the second year will be strictly based on the candidate's annual performance and satisfactory progress.
Job Description	This project aims to develop novel Heusler alloys with tailored compositions for energy efficient spintronics and power generation applications. Investigation of thermoelectric properties of alloys including Seebeck coefficient, electrical conductivity, thermal conductivity and power factor. Optimisation of composition and structure to achieve high Figure of Merit (zT) for thermoelectric applications.
Essential Qualification	M. Tech or, M. Sc., or an equivalent postgraduate degree in Physics, Chemistry, Materials Science, Nanotechnology, Chemical Engg, Electrical Engg. or Electronics Engg.
Desirable	1. The candidate needs to have good knowledge of the materials synthesis and characterization methods. 2. Some experience of density function theory and computational materials science. 3. Prior research or project experience relevant to the field. 4. Publications in peer-reviewed international journals. 5. Participation and/or paper presentations in national or international conferences.
Salary	As Per MPCOST Norms Consolidated Rs. 20,000/pm



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Add on Benefits	The selected candidates are eligible to register for PhD degree at MANIT Bhopal as per the Institute norms.
Mode of the Interview	After shortlisting, the selected candidates will be informed about the interview through official channels. The interview will be conducted in offline mode.
Submission of the application	Applicants must fill out the application form along with this advertisement, attach a detailed CV, and include self-attested copies of all certificates and documents mentioned in the application. The complete application should be sent via email to rkurchania@manit.ac.in by 12th August 2026. <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>
Date of Interview	17 th August 2026 at 10:00 AM in the Department of Physics
Terms and Conditions	- For more details, please contact Project Investigator: Dr. Rajnish Kurchania Professor, Department of Physics Maulana Azad National Institute of Technology (MANIT) Bhopal, Madhya Pradesh, India – 462003 ✉ Email: rkurchania@manit.ac.in - The above position is purely temporary and contract basis and co-terminus at any time from the project without any notification. - Candidates appearing in-person should bring the print out of completed filled in application form with original and self-attested copies of all supporting documents at the time of interview (offline) - No TA/DA will be paid for their appearing in the interview. - The applicant will be responsible for the authenticity of information other documents and photographs submitted. - The institute reserves the right to accept application at any time and consider candidates of exceptional credentials without applications. Qualification and experience may be relaxed by the institute at any point of time for otherwise exceptional candidates. - Merely, possessing the prescribed qualification does not ensure that the candidate would be called for interview. - Canvassing in any form will disqualify the candidature.



मौलाना आजाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल – 462003

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DEPARTMENT OF PHYSICS

Application for the post of Junior Research Fellow (JRF) in MPCOST Sponsored Research Project “Exploration of Heusler Alloys for Spintronics and Power Generation Applications”

1. Full Name (in Capital):
2. Gender:
3. Date of Birth: Age:____years (on the date of walk-in interview)
4. Nationality:
5. Father/Husband's Name:
6. Address for Correspondence:
7. Permanent Address:
8. Contact: Telephone (with STD code): Mobile: E-mail id:
9. Category (SC/ST/OBC/GEN):

10. Educational Qualification:

S. No.	Examination Passed	School/Institute/University / Board	Year of Passing	Division /Grade	% of marks/ CGPA	Subjects taken/ specialization
1	10 th					
2	12 th					
3	B.Tech./ B. Sc./BCA					
4	M.Tech./MCA /M. Sc.					
5	Any other					

Percent conversion of grade should be specified and the proof of conversion factor should be shown at the time of interview.

11. Details of Previous Experience:

S. No.	Name of Employer with address	Salary drawn	Period of service	Nature of Duties

If selected, minimum time required to join the post in _____ days.



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12. List of Top 5 Publications (attached separate sheet if required):

A: Journal Publication	B. Conference Publications

13. References (Minimum Two), Name, Designation, Institute address, Mobile/Tel No. and E-mail id.

1. _____ 2. _____
- _____
- _____
- _____

14. Suitability for the position applied (200 words)

15. Any other relevant information

Declaration

I affirm that the information given in this application is true and correct. I also fully understand that if at any stage, it is discovered that an attempt has been made by me to willfully conceal or misrepresent the facts, my candidature may be summarily rejected or my employment terminated.

Date-

Place-

Candidate Signature Candidate Name