



भौतिकी विभाग  
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद  
प्रयागराज-211004 (भारत)  
**Department of Physics**  
Motilal Nehru National Institute of Technology Allahabad  
Prayagraj - 211004 (India)

Advertisement No-.../2024/Project Staff

Dated- 27.11.2024

**Advertisement for the Post of One (01) Junior Research Fellow (JRF)/Project-Fellow On Contract**

Applications are invited from interested Indian nationals for the post of **Junior Research Fellow (JRF)/Project-Fellow (on contract)** under **Inter-University Accelerator Centre (IUAC)**, New Delhi, sponsored research project entitled "**Swift Heavy Ion Assisted Control of Resistive Switching in Epitaxial ZrO<sub>2</sub> Thin Films for Emerging Memories**". The duration of the sanctioned project is 03 years. The position is purely temporary, co-terminus with the project completion and will be governed by the funding agency rules and service conditions of Research & Consultancy Cell, Motilal Nehru National Institute of Technology (MNNIT) Allahabad.

**Name of Position** : Junior Research Fellow (JRF)/Project-Fellow  
**Number of Position** : 01  
**Tenure of Appointment** : Appointment will be made on contract basis for a period of one year initially, which may be extended subjected to release of funding from the funding agency. Further, the contract may be extended depending on the performance evaluation on yearly basis till the end of project.

**Qualifications:**

1. M.Sc. in Physics with minimum 55 % marks or equivalent with the interest in research in Condensed Matter Physics.
2. Age as per IUAC norms.

**Desirable:** CSIR-UGC NET/GATE/M.Phil. qualified candidates will be given preference. Experience in Thin film deposition techniques will be an added advantage.

**Consolidated Salary/Fellowship:**

1. Fellowship for JRF (NET/GATE Qualified students): ₹ 25,000 per month for two years and ₹ 28,000 per month for third & final year only.
2. Fellowship for Project-Fellow (Non-NET/GATE candidates): ₹ 14,000 per month for two years and ₹ 16,000 per month for third & final year only.
3. Contingency as per IUAC/UGC norms.

**Note:** Any other allowance like HRA etc. will not be admissible to the JRF/Project fellow.

**Other Benefits:** Candidate selected for the JRF may register for Ph.D. program of the Institute if he/she meets the eligibility conditions. Facility of yearly leave, carryover leave, medical benefits etc. may be available as per applicable rules of the project staff.

**How to Apply:**

Interested and eligible candidates must send the duly completed application on prescribed format along with copies of all supporting documents to: **Office, Department of Physics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj - 211004, U.P.**, on or before **19/12/2024**. The envelope should be superscripted as "**APPLICATION FOR THE POST OF JRF/PROJECT-FELLOW (ON CONTRACT)**". A softcopy of the application with the supporting documents must also reach by email to [sandeep\\_kumar@mnnit.ac.in](mailto:sandeep_kumar@mnnit.ac.in) on or before the deadline.



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**Selection Procedure:**

The candidate will be selected through an interview process. The mode of the interview will be Offline only. The shortlisted candidates will be informed about the Interview date only through email.

**General Terms and Conditions:**

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to reject 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 exceptional candidates.
3. Mere possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The Candidates will be shortlisted on the basis of merit and need of the project.
4. Shortlisted Candidates will be informed by e-mail about the interview dates. So, they must provide their valid Email IDs in their applications.
5. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications.
6. Applicants in employment (private, government or any other organization) are required to submit a “**No Objection Certificate**” from the employer at the time of interview.
7. No TA/DA will be paid for appearing in the interview.

**Name of Principal Investigator:**

**Dr. Sandeep Kumar**  
Assistant Professor,  
Department of Physics  
MNNIT Allahabad  
Prayagraj, 211004  
Email- [sandeep\\_kumar@mnnit.ac.in](mailto:sandeep_kumar@mnnit.ac.in)  
Contact- +91 9990670267



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**For office use only**

Application No.....

**APPLICATION FORM**

**Advt. No.....**

**Dated.....**

<b>Research Project Entitled- "Swift Heavy Ion Assisted Control of Resistive Switching in Epitaxial ZrO<sub>2</sub> Thin Films for Emerging Memories"</b>	<b>Affix Passport Size Photograph here</b>
<b>Sanction letter &amp; Date : IUAC/XIII.3A, Dated: 10.01.2024</b>	
<b>Funding Agency : IUAC, New Delhi</b>	
<b>Name of P.I. : Dr. Sandeep Kumar</b>	
<b>Name of Co-PI: None</b>	
<b>Name of position : Junior Research Fellow (JRF)/Project-Fellow (On contract)</b>	
<b>Department/Section : Department of Physics</b>	

1.	Name of the Candidate (In Capital letter)					
2.	Sex (Male/Female)					
3.	Marital Status (Married/Unmarried)					
4.	Date of Birth					
5.	Age as on last date of application	_____ Years _____ Months _____ Days				
6.	Father's/Husband's Name					
7.	Present/Contact Address					
8.	Permanent Address					
9.	Mobile No					
10.	E-mail					
11.	Nationality					
12.	Category	Gen/SC/ST/OBC/PH _____ (enclosed attested copy of certificate) and women				
13.	NET/GATE	Valid up to _____ Score/Rank _____				
14.	Educational Qualification					
	<b>Qualification</b>	<b>Subject/Discipline</b>	<b>Board/Institute/Univ.</b>	<b>Year</b>	<b>% of marks</b>	<b>Div.</b>
	10th or equivalent					
	12th or equivalent					
	Diploma, if any					
	BA/B.Sc./B.E./B.Tech					
	M.A./M.Sc.					
	M.Phil./M.E./M.Tech*					
	Ph.D*					



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**\*Title of M. Sc./ M. Tech. Thesis:**

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15.	Details of Experience in chronological order. Enclose a separate sheet duly authenticated under your signature if necessary							
	<b>Organization</b>	<b>Position</b>	<b>Salary / Emoluments</b>	<b>Nature of Duties</b>	<b>Nature of appointment</b>	<b>Period of Experience</b>		
						<b>Year</b>	<b>Month</b>	<b>Days</b>
16.	Research Publications (Attach list): -				Numbers			
	SCI Journals							
	Non-SCI Journals							
	International Conference/Seminar/ Symposium Proceeding							
	National Conference/Seminar/Symposium Proceeding							
17.	Any other information							
18.	Indicated whether you propose to register for higher degree* at MNNIT, Allahabad. Yes/No (Name of degree: Ph.D.)							

**Note:-** \*Those candidates who wish to be admitted as student for higher degree must fulfill at least the minimum eligibility for the respective admission as available on the Institute website.

#### **DECLARATION**

I hereby declare that all the statements made in this application are true and complete and nothing has been concealed/ distorted. I am aware that, if at any time I am found to have concealed/distorted any material information, my engagement is liable to be summarily terminated without notice.

Place:  
Date:

Signature of the Applicant

**Enclosure-** Self attested copy of documents

1. Proof of Date of Birth
2. Mark sheets & certificates of all the examination passed
3. Category Certificate, if applicable
4. NET/GATE score card, if passed
5. Experience certificate, if any