



# Indian Institute of Technology Jodhpur

## Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/83

06 March 2024

### Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Institute Project at this Institute. The position is purely temporary, initially for a period of 05 Months, and same extendable but co-terminus with the duration of the project, on a contractual basis with consolidated pay. The requisite qualification, experience and other details are given below:

1.	Project No.	S/SERB/PKJ /20220125
2.	Project Title	Theoretical and Computational Study of Phase Separation in Binary Mixtures in the presence of Surface Fields
3.	Name of the Project Investigator	Dr. Prabhat Kumar Jaiswal
4.	Duration for initial appointment	05 Months
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay (Salary Range)	Rs. 31,000/-+HRA @ 8%
8.	Minimum Qualification and Experience	<p><u>Eligibility: -</u> Postgraduate degree in Physics with CSIR-UGC NET including lectureship or GATE.</p> <p><u>Desirable Qualification and Experience: -</u></p> <ol style="list-style-type: none"><li>1. Knowledge of Statistical Physics and Computer Programming.</li><li>2. Knowledge of Molecular Dynamics Simulation</li></ol>
9.	Job Description	<ul style="list-style-type: none"><li>• Setting up the code/script for phase-separating mixtures in contact with a surface</li><li>• Characterizing domain morphology and wetting kinetics for the system</li><li>• Writing and presenting conducted research work in reputed journals/conferences</li></ul>
10.	Brief description of Project	The process of spinodal decomposition in binary (AB) mixtures exhibits spontaneous phase segregation when rendered thermodynamically unstable. In the surface-directed spinodal decomposition (SDSD), the presence of a wall with a preferential attraction toward a particular component creates additional strain on the morphology phase-separating domains at the surface. In this project, JRF will investigate the growth laws for the wetting-layer thickness due to different surface fields. JRF has to study further the role of hydrodynamics and depth of the

		temperature quench on the fast-mode growth.
11.	Maximum Age	32 years (Relaxation in age for the category candidates only would be admissible as per Central Government Rules.)
12.	Age Bar	Age will be calculated on the closing date of the online submission of the application. Relaxation in age for the category candidates only would be admissible as per Central Government Rules. Also kindly enclose the Caste Certificate along with the application.

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process up to 20 March 2024.**

**It is mandatory to send the soft copy of the application with all relevant documents to [recruitment\\_rnd@iitj.ac.in](mailto:recruitment_rnd@iitj.ac.in)** (Please mention the advertisement number in the subject line of the email). **Without documents, your application will not be considered.** There is no need to send the hard copy.

#### General Instructions to Applicant(s)

1.	The post(s) is purely temporary and contractual for a period of 05 Months and extension based on satisfactory performance, but co-terminus with the duration of the project
2.	Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected.
3.	Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature.
4.	Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview.
5.	The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
6.	Higher initial pay may be given to exceptionally qualified/deserving candidate.
7.	No TA/DA shall be paid to the candidates for attending the interview.
8.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.
9.	Canvassing in any form will be a disqualification.
10.	No interim correspondence will be entertained.
11.	No need to send hard copy.