

Indian Institute of Technology Jodhpur Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/18 22 June 2023

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored 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/ATS/20210073
2.	Project Title	Numerical Modeling and Experimental Characterization
		of Dynamic Behavior of Soft Dielectric Elastomer
		Minimum Energy Structures
3.	Name of the Project Investigator	Dr. Atul Kumar Sharma
4.	Duration for initial appointment	05 Months
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 31,000/-
8.	Minimum Qualification and Experience	Eligibility: B. Tech. in Mechanical Engineering, M. Tech. in Solid Mechanics or Design Engineering specialization and Qualified GATE in Mechanical Engineering
		Desirable Qualification: Knowledge of FEM; Writing codes in MATLAB.
09.	Brief description of Project	Project Objectives: • To develop a numerical framework for investigating the nonlinear dynamic behavior of dielectric elastomer minimum energy structures (DEMES). • To perform a detailed parametric study to examine the effect of membrane pre-stretch and frame compliance by tailoring the geometrical properties of the compliant frame on the equilibrium state, DC and AC dynamic response, periodicity of the DEMES actuators. • To incorporate the material viscoelasticity and anisotropy in the numerical framework for investigating the membrane anisotropic and viscoelastic effects on the dynamic response of the DEMES actuators. • To set up a dedicated experimental facility to test predictions of the numerical model and designing the futuristic dielectric elastomer minimum energy structures by tailoring the compliant frame geometry.

10.	Job Description	Theoretical and Experimental Work
11.	Maximum Age	36 Years

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process** up to **06 July 2023**. The candidates are advised to send a soft copy of the application with all relevant documents to *recruitment_rnd@iitj.ac.in* (*Please mention the advertisement number in the subject line of the email*). No need to send a hard copy.

General Instructions to Applicant(s)

2. Ap sur 3. Cer	risfactory performance, but co-terminus with the duration of the project oplication which is incomplete, not in prescribed format, without photograph or unsigned will be mmarily rejected. retificate in support of experience should be in proper format i.e. it should be on the organizations ter head, bear the date of issue, specific period of work, name and designation of the issuing		
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aut	thority along with his signature.		
	stitute reserves the right to:		
	a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time.		
	Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without		
	signing any reason.		
	Place a reasonable limit on the total number of candidates to be called for the Written Test and/or ill Test, Interview.		
5. The	e Institute shall verify the antecedents or documents submitted by a candidate at the time of		
app	pointment or during the tenure of the service. In case, it is detected that the documents submitted by		
the	e candidates are fake or the candidate has a clandestine antecedents/background and has		
sup	ppressed the said information, then his/her services shall be terminated.		
6. Hig	gher 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	o correspondence will be entertained from candidates regarding interview and reasons for not being		
call	led for interview.		
9. Car	nvassing in any form will be a disqualification.		
10. No	interim correspondence will be entertained.		
11. No	need to send hard copy.		

Officer In-charge Research & Development