



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D/2021-22/32

21 September 2021

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 01 Year, and extendable but co-terminus with the duration of the project, on contractual basis with consolidated pay. The requisite qualification, experience and others details are given below:

1.	Project No.	S/SERB/BP/20190038
2.	Project Title	Development of Light-weight and Flexible Multi-link Robotic Manipulator Mounted on Mobile Platform: Modelling, Simulation and Physical Realization
3.	Name of the Project Investigator	Dr. Barun Pratiher
4.	Duration for initial Appointment	01 Years
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs.31,000/-
8.	Minimum Qualification and Experience	<p><u>Eligibility:</u> Post Graduate Degree in Mechanical Engineering with specialization in Machine Design with throughout first class with CSIR-UGC NET/GATE. OR B.E in Mechanical Engineering with excellent academic record and working experience in robotics with GATE.</p> <p><u>Desirable :</u> The candidate should possess research experience in mechanics of deformable bodies, and Mechanisms & Machines. Knowledge in Multi-body dynamics simulation software.</p>
9	Brief description of Project	This project deals with an objective of developing a prototype of a multi-link flexible manipulator mounted on moving platform through the analysis, computer simulation and physical evaluations. This proposal will primarily emphasize on one feature of the robots of the next generation viz., structural flexibility to higher payload ratio as compared with the very low ratio ranging from 1:10 to 1:30 for the rigid conventional robots. Furthermore, end-point of the robot has to reach each point in the working space with an adequate

		accuracy and minimal overshoot. The project will focus on dynamic interaction and its control performance of the model through physical experimentation on high position accuracy.
10	Job Description	Proposed project will describe theoretical studies into the dynamics of flexible multi-link robotic manipulator mounted on a moving platform a way forward to build a prototype model comparing the performance with numerical simulations. An attempt will be necessitated by the investigator to provide a comprehensive exposition of the modelling and dynamics of flexible arms and pairs robots validated with physical realization.
11	Maximum Age	Below 35 years

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **19 December 2021**. 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)

1.	The post(s) is purely temporary and contractual for a period of 01 Year, 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.	The Institute reserves the right to: (a) conduct written/trade tests for such posts wherever if the circumstances so warrant (b) not filling any of the advertised positions (c) fill consequential vacancies arising at the time of interview from available candidates. The number of positions is thus open to change.
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.	No TA/DA shall be paid to the candidates for attending the interview.
7.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.

8.	Canvassing in any form will be a disqualification.
9.	No interim correspondence will be entertained.
10.	Postal delay will not be entertained.

Officer In-charge
Research & Development