



# Indian Institute of Technology Jodhpur

## Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/34

18 August 2023

### Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Research Project at this Institute. The position is purely temporary, initially for a period of 01 Year, 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.	Hardik Kothadia
2.	Project Title	A novel hybrid solar thermal power and desalination plant for remote areas
3.	Name of the Project Investigator	Dr. Hardik Kothadia
4.	Duration for initial appointment	01 Year
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	31,000/-+HRA @ 9%
8.	Minimum Qualification and Experience	<u>Eligibility:</u> Master Degree in Engineering with GATE or Bachelor Degree with GATE  <u>Desirable Qualification:</u> M. Tech. in Mechanical Engineering or B. Tech. with GATE in Mechanical Engineering.
09.	Job Description	<ul style="list-style-type: none"><li>• Design and development MED system and saturation temperature and pressure</li><li>• Design and development of the single row type rectangular channel-based heat exchanger</li><li>• Improving Effectiveness of Heat Exchanger by surface treatment</li><li>• Optimize the design of heat exchanger for higher effectiveness and lower fouling</li><li>• Variable stages of MED system according to the variation in affecting parameter</li></ul>
10.	Brief description of Project	<b>Development of Multi-effect desalination (MED) plant</b> In the remote villages in Jodhpur/Barmer districts, supply of electricity and drinking water is inadequate. However, these areas have well distributed sun's energy. Solar thermal has a higher initial cost than solar PV and lower thermal efficiency than coal based thermal power plants. However, these drawbacks can be overcome by combining solar thermal power with a desalination system. Moreover,

		these will work as stand-alone units and solve two problems (i.e. water and electricity) at the same time. The technology will be used for electricity generation and production of drinking water to minimise the wastage of thermal energy. Solar concentrating dish with additional energy storage allows uniform electricity and drinking water production from solar energy throughout the day.
11.	Maximum Age	35 Years
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 01 September 2023**. The candidates are advised to send a 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*). *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.	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.