

## Indian Institute of Technology Jodhpur Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2022-23/53 11 Nov 2022

## **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 06 Months, and same 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/BK/20220068
2.	Project Title	Specification-guided Design of Intelligent, Secure and Dependable Hardware Architectures for Edge Computing Applications
3.	Name of the Project Investigator	Dr. Binod Kumar
4.	Duration for initial appointment	06 Months
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 31,000/-HRA
8.	Minimum Qualification and Experience	Eligibility: B.E/B.Tech. in ECE/CSE/Electronics and GATE qualified
		Desirable Qualification: M.E./M. Tech. (VLSI) or M.E./M. Tech. (Microelectronics), Knowledge in Python/C/C++
09.	Brief description of Project	This project aims to develop hardware designs for the implementation of Artificial Intelligence (AI) algorithms on different computing devices. The goal is to enable intelligent computation on different end-use devices rather than computing on remote servers. Different aspects of hardware design such as security, dependability and robustness would also be considered during development.
10.	Job Description	The JRF will have the responsibility to carry out research and development activities for the project. Specifically, the candidate shall have to implement hardware designs for the realization of different AI algorithms under the constraints of resources such as limited power, limited area, and requirements of high accuracy and low latency. For example- trying to implement accurate image classification on mobile devices. The skills such as understanding of

		neural networks and the basics of deep learning would be a
		strong plus. Once the designs are finalized, these designs
		would be implemented on FPGA boards to validate their
		performance of these designs. The candidate would get
		opportunity to carry out research activities & publish in
		collaboration with other reputed worldwide universities.
		The project also targets the development of co-design
		techniques (where the neural network architecture is
		discovered jointly with the hardware design on which the
		discovered neural network will be implemented). The
		project aims to develop techniques that are at the industrial
		level and the candidate can build a very strong profile for
		preparing himself/herself for System-on-chip (SoC)
		architect/hardware design engineer/design verification
		engineer roles at top semiconductor companies. The project
		would also target any viable option of product
		development from the developments.
10.	Maximum Age	30 Years
10.	manifelli rige	oo lealo

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **18 December 2022**. The candidates are advised to send a soft copy of the application with all relevant documents to <code>recruitment\_rnd@iitj.ac.in</code> (<code>Please mention the advertisement number in the subject line of the email).No need to send a hard copy.</code>

## **General Instructions to Applicant(s)**

1.	The post(s) is purely temporary and contractual for a period of 06 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.	
11.	No need to send hard copy.	

Officer In-charge Research & Development