

Date: 01-09-2026

ADVERTISEMENT FOR THE POST OF JRF IN IoT-INTEGRATED SMART SENSOR PROJECT

Applications are invited from highly motivated and eligible Indian citizens for a Junior Research Fellow (JRF) position in a research project entitled “**IoT-Integrated Portable Carbon Quantum Dot-Based Fluorescent Smart Sensor with an Intelligent Learning System for Real-Time Detection of Pesticide Residues**” at Thapar Institute of Engineering & Technology, Patiala.

Project Details:

Title of the Project	IoT-Integrated Portable Carbon Quantum Dot-Based Fluorescent Smart Sensor with an Intelligent Learning System for Real-Time Detection of Pesticide Residues
Sponsored Agency	CEEMS TIET, Patiala and Virginia Tech. USA
Name of the Post	Junior Research Fellowship
Vacancy	01 Post
Duration	01 Years (Subject to extension of one more year based on performance)
Principal Investigator	Dr. Irshad Mohiuddin , Assistant Professor (Research), Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala-147004, India.
Co-PIs	(i) Dr. Manoj Badoni , Associate Professor, Electrical and Instrumentation Engineering Department (ii) Dr. Sudhanshu Mittal , Assistant Professor (Research), Electrical and Instrumentation Engineering Department (iii) Dr. Gurprince Singh , Assistant Professor (Research), Electronics and Communication Engineering Department
Opportunity	The selected candidate can register for the full-time Ph.D. program at TIET (upon fulfilling admission norms)

Other Details:

1.	Essential Qualification	Master's in Chemistry/M.Tech. or ME in Electrical and Instrumentation Engineering/M.Tech. or ME in Electronics and Communication Engineering or relevant branches with a minimum of 60% marks or 7.0 CGPA. Applicants with a valid GATE/NET score will be given preference.
2.	Desirable	Candidate having prior experience in fundamental laboratory techniques, fluorescence-based sensing, and spectroscopic characterization, with exposure to sensor development, instrumentation, IoT, electronics, or machine learning, will be considered an added advantage
3.	Fellowship	Rs. 30,000/- per month as per norms for Non-GATE/NET candidates Rs. 45,000/- per month as per norms for GATE/NET candidates
4.	Important	- The assignment is purely temporary in nature, and it is co-terminus with the project. - No TA/DA will be paid for appearing in the interview and/or joining the position. - All terms & conditions for this recruitment will be as per the guidelines of CEEMS TIET, Patiala, and reserves the right to cancel the recruitment without any prior notice.
5.	How to Apply	Eligible and interested candidates should send their detailed Curriculum Vitae (CV) in the given format through e-mail to Dr. Irshad Mohiuddin (irshad.mohiuddin@thapar.edu) and Dr. Gurprince Singh (gurprince.singh@thapar.edu) , mentioning the subject as “ Application for JRF position ”. The last date to receive the applications is 02 weeks from the date of this notification. The shortlisted candidates will be informed about the interview date by email.

APPLICATION FORM FOR THE POST OF JRF IN IoT-INTEGRATED SMART SENSOR PROJECT

Project Title: *IoT-Integrated Portable Carbon Quantum Dot-Based Fluorescent Smart Sensor with an Intelligent Learning System for Real-Time Detection of Pesticide Residues*

1.	Name:		Affix recent passport size photograph			
2.	Male/Female:					
3.	Father/Spouse's Name:					
4.	Mother's Name:					
5.	Address:					
	a) Communication address:					
	b) Permanent address:					
6.	Email ID:	7. Phone No:				
8.	Date of birth:	9. Marital status:				
10.	Nationality:	11. Caste category (OP/SC/ST/OBC/PH):				
12.	Details of Universities/Institutions attended (from 10 th Standard onwards) (Self-attested copies of certificates and mark sheets/grade cards must be presented at the time of interview)					
	Degree	University/ College/Board	Year	Subject(s)	% Marks/CGPA/CPI	Class
13.	Professional Qualifying Examination Passed: GATE/NET/Equivalent: (Attested copy of certificate must be attached with the application)					
	Name of Examination	Subject	Rank /Marks /Score/Percentile	Qualifying date/year	Valid upto	

14.	Professional Experience (Teaching/Research/Industrial), if any				
	Name of organization	Position	Type of work	Period	
				From	To
15.	Any other relevant information (e.g., Publications, Patents, distinctions, achievements, recognitions, etc. if any): ti				
16.	Declaration I hereby declare that the entries made in this application are correct to the best of my knowledge and belief. Place: Date: Signature and Name of the applicant				