



OFFICE OF THE DEAN (R & C), NIT, TIRUCHIRAPPALLI

**ADVERTISEMENT FOR THE POST OF
JUNIOR RESEARCH FELLOW (JRF)**

Date:24-08-2026

Applications are invited from Indian Nationals only for Project Positions as per the details given below, for research project, under the principal investigator **Dr. Varun P. Gopi, Associate Professor**, Co-Principal Investigator **Dr. B. Naresh Kumar Reddy, Assistant Professor**, Department of Electronics and Communication Engineering, in National Institute of Technology, Tiruchirappalli-15, Tamil Nadu.

Title of the Project: **ASIC Implementation, Chip Fabrication, and Testing of a Indigenous RISC-V Based Lightweight Edge AI Processor for IoT-Enabled Healthcare Application**

1. Funding Agency for the Project: **Centre for System On-Chip (SoC) Design and Fabrication**
2. Project Positions and Number: **Junior Research Fellow (JRF)-01**
3. Qualifications:

Junior Research Fellow (JRF)-01:

Essential Requirements: B.E/B.Tech in Electronics & Communication Engineering with First Class from a recognized University/Institute and M.E/M.Tech/M.S. in VLSI Design / Embedded Systems / Microprocessors or any other specialization in ECE related to VLSI. Knowledge and experience in ASIC design, chip fabrication flow, and VLSI tools will be an added advantage.

Skill Sets Required: Strong knowledge of Verilog/ System Verilog RTL coding, digital VLSI design, and ASIC design flow including synthesis, STA, physical design, and RTL-to-GDSII. Proficiency in C/C++ and Python, with knowledge of RISC-V architecture, processor programming, and hardware/software co-design. Knowledge of AI/ML algorithms, lightweight neural networks, quantization, and edge-AI accelerator implementation. Familiarity with FPGA prototyping, ASIC verification, DFT, chip testing, and semiconductor fabrication. Knowledge of DSP, biomedical signal processing, IoT-based healthcare systems, and sensor interfacing. Familiarity with ASIC/EDA tools and hardware debugging is desirable.

4. **Emoluments: Rs.37,000/-** per month (3 years)
Duration: **36 Months** (extension based on performance review every 12 months)
5. Job Description: To support various critical research and development tasks, developing novel ideas, data collection, project execution, and preparation of technical articles and reports.
- A. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.

- B. Eligible candidates may send the scanned copy of their duly filled applications, only in the prescribed format given below along with the relevant supporting documents by email to: jrfmicainitt@gmail.com with the subject marked as “**JRF Application-CSoCDF PROJECT**”.
- C. Application should be furnished only in the prescribed format.
- D. Experience including research, industry and others.
- E. Attach, self-attested copies of educational and experience certificates.
- F. The date of interview will be communicated to the shortlisted candidates by **E-mail**.
- G. Candidates shall bring along with them the original certificates at the time of interview for verification.
- H. Please note that no TA/DA is admissible for attending the interview.
- I. The last date and time of submission of duly filled in application **14.09.2026 at 5 pm**.
- J. The age of the applicant should be less than **35 years** as on the closing date of the application. Candidates belonging to OBC and SC/ST categories are eligible for the normal relaxation of 3 and 5 years, respectively.
- K. The candidate selected as Junior Research Fellow, will be permitted to **register for PhD/MS-PhD** Programme as per NITT rules and regulations

(Dr. Varun P. Gopi)
Principal Investigator

OFFICE OF THE DEAN (R & C), NIT, TIRUCHI
RECRUITMENT OF TEMPORARY PROJECT STAFF --PRESCRIBED APPLICATION FOR THE
POST OF JRF & Lab. Engineer – SPECIMEN TEMPLATE

For Office Use only Serial Number allotted to the Applicant Signature of the Application Screening Committee Chairman	Paste here your recent passport size colour Photograph
---	---

APPLICATION FOR THE POST OF JRF

1. Name of the Candidate in full					
2. Nationality					
3. Mother Tongue					
4. Date of Birth	Date	Month	Year		
5. Sex	Male / Female				
6. Marital Status	Married / Single				
7. Category SC / ST / OBC / General	Please specify				
8. Address for communication with Mobile number and E Mail ID					
9. Project Title					
10. Name of the Post applied for					
11. Reference Number with Date					
Academic Career : Enclose photo copies of the qualifying degree certificates and mark sheets/ grade cards showing the percentage of marks or CGPF from HSC onwards					
Name of Exam	School / University	Board/ University	Broad subjects of study	Year of Passing	% of marks / GCPA
S.S.L.C					
H.S.C					
Graduation					
Post-Graduation					
Any other					

Enclose self-attested Xerox copies

12. GATE Score (If any).....Subject
Year.....

13. NET Score (If any)Subject
Year.....

14. Work Experience, if any

Organization	Designation	Duration		Nature of Job
		From	To	

14. Previous Research work and publication, if any (enclose copies of published or unpublished work)

15. Proof of past study as a sponsored candidate, or other contractual obligation, if any:

16. Reference

Name	Address	Phone & E Mail ID

17. I do not have a relative among Faculty and Staff of the NIT, Tiruchy.

18. Declaration: I do hereby that the information furnished in the application is true to the best of my knowledge and belief. If admitted, I shall abide by the rules and regulations of the Institute and Project associated to it. If any information furnished in this application is found to be untrue, I am liable to forfeit the seat / appointment allotted to me any time in future and legal action be taken against me.

Date:

Full signature of the Applicant

List of Enclosures: (1)

(2)

(3)

(4)