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

ADVERTISEMENT FOR THE POST OF JUNIOR RESEARCH FELLOW (JRF)

Date: 11-11-2026

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**, **Department of Electronics and Communication Engineering,** in **National Institute of Technology, Tiruchirappalli-15, Tamil Nadu.**

Title of the Project: **"Artificial Intelligence (AI) Enabled Data Association and Intelligent Radar Scheduling for Short-Arc."**

Funding Agency for the Project: **ISRO-RESPOND Programme.**

Project Positions and Number: **JUNIOR RESEARCH FELLOW (JRF)/PROJECT ASSOCIATE-I (PA-I)-01**

Qualifications for JRF: B. E/ B. Tech in Electronics & Communication Engineering with minimum of 65% marks or 6.5 CGPA from a recognized University/ Institute with a qualified GATE score obtained in the last four years from the closing date of application OR M.E/M.Tech in **Communication Systems / Signal Processing or** other specialization in ECE selected through GATE with 65% marks or 6.5 CGPA.

Qualifications for PA-I: B. E/ B. Tech in Electronics & Communication Engineering with minimum of 65% marks or 6.5 CGPA from a recognized University *OR* **M.E/M.Tech in Communication Systems / Signal Processing or** any other specialization in ECE with 65% marks or 6.5 CGPA.

Skill Sets Required: Strong programming skills in Python, C/C++, and MATLAB for algorithm development, simulation, and implementation. Good knowledge of Artificial Intelligence (AI), Machine Learning (ML), and deep learning algorithms. Fundamental knowledge of radar systems, radar signal processing, target detection, tracking, and data association techniques. Good understanding of Digital Signal Processing (DSP), adaptive signal processing, and statistical signal processing. Strong fundamentals in linear algebra, probability, statistics, optimization, and numerical methods. Knowledge of multi-target tracking algorithms, Kalman filtering, state estimation, and data association techniques. Ability to develop, simulate, analyze, and validate AI-based algorithms using MATLAB and Python. Basic knowledge of radar resource management, intelligent scheduling, and optimization techniques.

1. Emoluments:
   JRF: 37,000+20% HRA (two years) (**Valid Gate/NET score**)
   PA-I: 31000+20% **HRA** (Two years) (**No Gate/NET score**)
2. Duration: **2 Years** (extension based on performance review every 12 months)
3. Job Description: Data collection, Execution of the project, Report and Technical article preparation

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: **micaihlab@gmail.com** with the subject

marked as **"JRF - ISRO-RESPOND Programme".**

C. Application should be furnished only in the prescribed format.

D. Experience including research, industrial field and others.

E. Attested copies of degree/ certificate and experience certificate.

F. Candidates shall bring along with them the original certificates at the time of interview for verification.

G. Please note that no TA/DA is admissible for attending the interview.

H. The last date and time of submission of duly filled in application **30.11.2026 at 5 P.M**.

I. The date of interview will be communicated to the shortlisted candidates by **E-mail.**

J. Age of the applicant should be less than **35 years** as on the closing date of application. The candidates belonging to OBC and SC / ST are eligible for normal relaxation of 3 and 5 years respectively.

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