



Advertisement for the Post of Junior Research Fellow

Advt. No.:IIITDMK/PR/JRF/A3/2025

Date: 5th February 2025

Applications are invited for the following post. The post is purely on a contractual basis.

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| Name of Position | Junior Research Fellow (JRF) |
| Number of Positions | One |
| Nature of Work | To design, simulate, fabricate and test the metagratings based RIS |
| Duration of the Position | The post is purely on a contractual basis and initially, the post is for 06 Months and can be extended for another 1.2 years. |
| Stipend | Rs. 37,000/- pm |
| Title of the Sponsored Project | Metagratings based Reconfigurable Intelligent Surfaces for X-band N-LOS Radar Surveillance |
| Funding Agency | DRDO- CARS |
| P.I / Co-P.I | Dr. Sreenath Reddy Thummaluru / Prof. M.V. Kartikeyan |
| Department | Electronics and Communication Engineering |
| Educational Qualification | BE/B.Tech in Electronics and Communication Engineering (or) relevant branch. AND Master's degree in Electrical Engineering / Electrical and Electronics Engineering / Electronics Engineering / Electronics and Communication Engineering (or) Engineering in any area relevant to the project. |
| Additional Qualification (Desirable, if any) | 1. Knowledge in RF & Microwave domain, antennas 2. Expertise in MAT LAB, HFSS (or) CST |
| Age Limit | Preferably below 28 years as on Last date of receiving the application (Age relaxation is applicable as per Gol norms) |
| Walk-in Interview Schedule: Date, Time & Venue | 28.02.2025 at 10.00 am IIITDM Kancheepuram, Admin Building |

How to Apply and Selection Procedure:

1. Interested candidates are requested to fill their applications in the enclosed prescribed format. Take print of the application form sign, and submit the hard copy at the time of Interview.
2. Candidates should be present physically at 9.30am at IIITDM Kancheepuram located at Chennai - 600127 for the written test and/or interview.
3. Candidates should produce all educational and experience certificates at the time of interview for verification.
4. No TA/DA will be paid for attending the interview.
5. The selection process consists of written test followed by Interview. The topic for written test along with syllabus is enclosed.

For any clarification regarding the application process, the candidate may contact the PI. email: sreenath@iiitdm.ac.in

Sd/x

Dean (SR)



Topics for Written Test

Maxwell's equations: Differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector.

Plane waves and properties: Reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth.

Transmission lines: Equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart.

Rectangular and circular waveguides, light propagation in optical fibers, dipole and monopole antennas, linear antenna arrays.

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Appl. No.:
(will be filled by Office)

APPLICATION FOR THE POSITION OF PROJECT STAFF

Candidates Photo
to be pasted here

1. Advertisement Number:
2. Name of the Post:
3. Candidate's Full Name (As per SSLC Mark sheet):
4. Father's Name of the Candidate:
5. Date of Birth of the Candidate:
6. Nationality:
7. Gender:
8. Category (Gen / OBC / SC / ST):
(For age relaxation only)
9. Address for Communication:
10. Permanent Address:
11. Contact Phone / Mobile Number(s):

12. Email Address:

13. Educational Qualifications Starting from Xth / SSLC:

| Sl. No. | Degree & Branch | Institute / University | Year of Entry & leaving | Percentage / CGPA & Class | Mode (Regular / Part-time / etc.) |
|---------|-----------------|------------------------|-------------------------|---------------------------|-----------------------------------|
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14. Academic Record: GATE/ CSIR - NET qualification details with percent marks / Rank, year of qualifying, etc.:

15. Names and addresses of two referees along with phone numbers and e-mail addresses:

a)

b)

16. Are you currently working in Central / State / Semi-Govt / PSU / Autonomous Bodies of the Govt.? (If yes, please submit NOC issued by your present employer):

17. Present Position / Designation:

18. Work Experience (in reverse chronological order including post held at present):

| Sl. No. | Organization | Designation | Start Date & End Date | Pay Scale / Total Pay |
|---------|--------------|-------------|-----------------------|-----------------------|
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19. If selected, time required to join:

20. Any other information you wish to mention:

UNDERTAKING

I hereby declare that I have carefully read and understood the instructions given in the Advertisement. All information furnished in this form as well as the attached documents are true and correct to the best of my knowledge and belief. I fully understand that if it is found at a later date that any information given in the application is incorrect / false or if I do not satisfy the eligibility criteria, my candidature / appointment is liable to be canceled / terminated.

Signature of the Applicant

Date: