Indian Institute of Information Technology, Sri City, Chittoor

Advertisement for the Recruitment of Junior Research Fellows (JRF)

Reference No: IIITS/R&D/ISRORespond-**DB**/JRF/2026-27/01 Dt. 22 Oct. 2026

Opening Date: 25th Nov, 2026 **Closing Date:** 2nd Dec 2026

Applications are invited for the posts of Junior Research Fellow (JRF) in a research project entitled " **RES-SDSC-2025-002: Space Debris RCS Estimation and dynamics Characterisation from MOTR Space Debris tracked data**" in reference to the administrative approval No. DS-2B-13012(2)/32/2026-Sec.2 from SDSR-SHAR, ISRO dated. 22nd Oct 2026.

Project Summary:

Multi Object Tracking Radar (MOTR) is an L-Band Active Phased Array Radar designed to track multiple targets. It is a long range skin mode tracking radar capable of tracking 0.25m2 RCS targets up to a range of 1000 km. MOTR can track more than 10 simultaneous targets using a single agile beam. MOTR is the first sensor in India capable of tracking space debris up to an altitude of 800 km. MOTR has tracked and catalogued nearly 54 different space objects from an altitude of 400 to 900 km which includes spent down stages of launch vehicles, debris, space stations like ISS, Tiangong and live satellites. MOTR tracked the space objects in skin mode. Studying the received signal from the target gives us the information of the target like its dynamics spin, its size and RCS. These characteristics of the debris need to be catalogued, to compute its drag coefficient, and its lifetime assessment.

JRF Positions available: 1

Name of Position	**:**	Junior Research Fellow (JRF)
Number of Position	**:**	01 (One)
Project Duration	**:**	18 Months
Academic Qualifications (Essential)	**:**	PG degree in basic Science (Physics/electronics) Or B.Tech./B.E./M. Tech./M. E. in Electronics and communication /Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants. **and** NET/GATE/national level examinations conducted by the Central Govt Dept and their agencies etc.

Additional Qualifications (desirable)		M.Tech./M.E. in RF and Microwave Engineering/Equivalent. with 60 % (or 6.5/10 CGPA) and above. With 5% relaxation for SC/ST/PwD applicants.
Skills Required (Essential)	**:**	(i) Strong knowledge in electromagnetics fundamentals, (ii) Fundamentals of radar, Types of Radars, working principles of Tracking Radars (iii) Radar cross section, theoretical models to compute RCS, (iv) basis understanding of space debris, size estimation models, free space wave propagation, and Good hands on using MATLAB/Python.
Skills Required (Desirable)	**:**	(i) Strong knowledge in Antenna concepts. (ii) Working experience EM simulation tools. (iii) Good understanding of ML models. iv) The preference may be given to the candidates who published papers (paid journals are not considered) in **reputed Journals/Conferences**.
Fellowship	**:**	As per the funding agency norm (i.e., for JRF Rs. 37000 + 10% HRA). No other allowances admissible.

Interested and eligible applicants may submit their application through the following link only (**No email submissions are entertained**): https://forms.gle/wrZNzBnwpLSv7irk6

A detailed **Curriculum Vitae** describing the working knowledge as per notification along with soft copies of **Mark Sheets** and **Certificates** should be uploaded. In case of any queries you may contact **divyabramham.k@iiits.in** (PI of the project) w.r.t. to the application process. Selected candidates must be able to report to the institute immediately.

Note:

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to accept applications at any time, and consider candidates of exceptional credentials without applications. Qualification and experience may be relaxed at any point of time for exceptional candidates.
3. Mere, possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The shortlisting will be done based on the need of the project.
4. Only shortlisted candidates will be informed by email about the interview date. So, the candidate must provide valid E-mail IDs in their applications.
5. Applicants in government/semi-government employment must submit a “No Objection Certificate” from the employer.

6. The first and foremost responsibility of the candidate is to fulfill the jobs' requirements to complete the above mentioned project in a timely manner.
7. Leaving the project before the end of the project is strongly discouraged. Candidates will not be entitled for any experience certificate if leaving the project without completing it.
8. The association between PI and the candidate can be discontinued at any time by giving one month's notice in writing either by the PI of the project to the candidate, or by candidate to the PI of the project.
9. The progress of the project will be monitored continuously and JRF may be asked to leave in case of unsatisfactory performance.
10. Candidates selected for this position can also apply for the regular PhD program in IIIT Sri City, provided they satisfy the eligibility criterion followed by the selection process laid down by the institute.
11. Experience letters will be provided, only if the candidate completes the project.
12. The above mentioned positions are purely temporary, association of the candidates with the institute will automatically end on the closing date of the project.

About IIITS

Indian Institute of Information Technology Sri City, Chittoor, Andhra Pradesh is a Research and Teaching Institute focused on the core areas of Information Technology: Computer Science, Electronics and Communications, and their applications in other domains. The Institute focuses on development of Technology and Applications that can be transferred for use to Industry and Society. IIITS is an Institution of National Importance setup by Government of India (MHRD), Government of Andhra Pradesh and Industry Partners (represented by Sri City Foundation) as a not-for- profit Public Private Partnership (N-PPP) Society.
Please visit www.iiits.ac.in.