

**ADVERTISEMENT FOR RECRUITMENT OF PROJECT STAFF UNDER**  
**ISRO STIC CELL**

Dated 16.11.2020

**Applications are invited from Indian Nationals with valid GATE scores or National Level Eligibility Test for Junior Research Fellowship (JRF Positions) as per the details given below under 6 different technology development projects sanctioned under ISRO STIC Cell and funded by ISRO.** Details of the projects, essential requirements have been given in the Annexure for all the 6 Projects.

**Guidelines for Applying:**

- A. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- B. Candidates applying for more than one project must send separate applications for the respective Principal Investigators (PI's)
- C. Candidates desiring to appear for the Interview should submit the soft copy of the applications with the following documents to the respective PI's of the listed projects specifying the code
  - Filled in application should be furnished only in the prescribed format.
  - Self attested copies of degree/ certificate and experience certificate.
- 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 is 10/12/2020 and 05.00 pm. The application should be submitted only in the prescribed format.
- I. The interview will be held on 21/12/2020 through online mode

**Dr. G. Uma**

**ISRO STIC Coordinator**

## **Annexure**

### **Project Code: S-TIC-SL-0151**

1. Title of the Project: Design of Controller for Buck Converter
2. Project Positions and Number: JRF (1)
3. Qualifications: BE/ B.Tech. in EEE/ECE and ME/MTech in VLSI
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 2 years
6. Principal Investigator: **Dr. G SARAVANA ILANGO**, [gsilango@nitt.edu](mailto:gsilango@nitt.edu)

### **Project Code: S-TIC-SL-0152**

1. Title of the Project: Design of Digital Signal Process using SCL Foundry
2. Project Positions and Number: JRF (1)
3. Qualifications: B.E/ B. Tech. in ECE/CSE/EEE and ME/ M. Tech. in VLSI Design / Microelectronics/ any other specialization related to VLSI domain with first-class.
  - Desirable Requirements: Minimum 1- year experience with the relevant field of VLSI/ASIC and must also have a strong understanding of all phases of front-end/ Back-end development in ASIC projects, including ASIC architecture, micro-architecture, RTL design, verification, timing closure & physical design.
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 2 years
6. Principal Investigator: [lakhs@nitt.edu](mailto:lakhs@nitt.edu)

### **Project Code: S-TIC-SL-0153**

1. Title of the Project: Design and development of X-band &Ka-band passive devices
2. Project Positions and Number: JRF (1)
3. Qualifications: M.Tech. in Communication systems/ Telecommunication Engineering/ Microwave and optical engineering/ Advanced Communication systems/ Wireless Communication/ Applied Electronics/ Signal Processing.
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 2 years
6. Principal Investigator: **Dr. R. PANDEESWARI**, [rpands@nitt.edu](mailto:rpands@nitt.edu)

**Project Code: S-TIC-SL-0154**

1. Title of the Project: LC Bandpass Filter for space Technology
2. Project Positions and Number: JRF (1)
3. Qualifications: B.E/B. Tech. in Electronics and Communication Engineering & M.E / M. Tech. – specialized in Communication Systems / Communication Engineering. Preference will be given to the candidates having experience in RF communication systems design & EDA Tools.
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 1.5 years
6. Principal Investigator: **Dr. S. SENTHIL KUMAR**, [skumar@nitt.edu](mailto:skumar@nitt.edu)

**Project Code: S-TIC-SL-0155**

1. Title of the Project: Design and development of ferrite dielectric based microstrip Isolator for X-band application
2. Project Positions and Number: JRF (1)
3. Qualifications: B.E/B.Tech. in Electronics & Communication Engineering and M.E/M.Tech or Equivalent in Electronics and Communication Engineering/ Communication Systems/ RF and Microwave Engineering/ Antenna Design
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 2 years
6. Principal Investigator: **Dr. S. S KARTHIKEYAN**, [sskarthikeyan@nitt.edu](mailto:sskarthikeyan@nitt.edu)

**Project Code: S-TIC-SL-0156**

1. Title of the Project: Fracture of Ammonium perchlorate Crystal particles under compression, shear and impact
2. Project Positions and Number: JRF (1)
3. Qualifications: M.Tech Chemical Engineering/ Mechanical Engineering/ MME/ Production Engineering.
  - Knowledge on crystal structures/ defects or fractography are desirable
4. Emoluments: Rs. 35,960/- inclusive of HRA
5. Duration: 1.5 years
6. Principal Investigator: **Dr. J. SARAT CHANDRA BABU**  
[sarat@nitt.edu](mailto:sarat@nitt.edu)

**OFFICE OF THE DEAN (R & C), NIT, TIRUCHI**  
**RECRUITMENT OF TEMPORARY PROJECT STAFF --PRESCRIBED APPLICATION**  
**FOR THE POST OF RESEARCH ASSOCIATE / JRF / SRF / TECHNICAL STAFF –**  
**SPECIMEN TEMPLATE**

<p style="text-align: center;">For Office Use only</p> <p>Serial Number allotted to the Applicant          .....</p> <p>Signature of the Application Screening Committee Chairman</p>	<p>Paste here your recent passport size colour Photograph</p>
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**APPLICATION FOR THE POST OF RESEARCH ASSOCIATE / JRF / SRF/ TECHNICAL STAFF**

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. Advertisement 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 .....Subject  
.....Year.....

13. NET Score  
.....Subject.....Year.....  
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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)

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

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16. Reference

Name	Address	Phone & E Mail ID

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

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)