

**DEPARTMENT OF INSTRUMENTATION AND CONTROL  
ENGINEERING**

FORM No. 7

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015  
TEL: 0431 – 2503350, FAX: 0431 – 2500133**

**FILE NO. SRG/2022/001419**

**04-April-2023**

**ADVERTISEMENT**

Applications are invited from eligible candidates for the position of **Junior Research Fellow (JRF)** for the **Science & Engineering Research Board (SERB) – Startup Research Grant (SRG)** project titled “**Development of a multi-axis actuation system for the probe in Sub-Surface Scanning Probe Microscopy**” in the Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli.

Position	JRF
No. of vacancy	1 no.
Principal Investigator (PI)	Dr. Sri Ram Shankar R., Department of Instrumentation and Control Engineering, NIT-Tiruchirappalli. E-mail: <a href="mailto:srir@nitt.edu">srir@nitt.edu</a>
Essential Qualification	M.E/ M.Tech in Instrumentation/ Control Systems/ Mechatronics/ Mechanical Engineering/ Electronics/ Electrical Engineering or M.Sc in Physics/ Applied Physics or an equivalent degree with at least 60% marks.
Desirable Qualification	Qualification in GATE/ CSIR-UGC NET or other National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.
Salary	Rs. 31,000/- (for candidates <b>with</b> a valid GATE / equivalent national level test score) Rs. 25,000/- (for candidates <b>without</b> a valid GATE /equivalent national level test score)
Job Description	The project involves the design and development of a novel opto-mechatronic instrumentation system with applications in the field of nanotechnology. The ideal candidate has a flair for design and analysis of multiphysical systems, proof-of-principle prototyping, conducting careful experiments, analysis of results and preparing insightful reports. Prior experience in Analog Electronics, Signal Processing, Programming in MATLAB/Simulink/ LabVIEW would be desired.
Duration of the position	<b>Upto Two years</b> Selected candidate is eligible to register for a Ph.D in the department as per the institute norms.

## Other Instructions

- The candidates shall ensure that they are eligible for the position they intend to apply.
- The candidates should submit the hard copy of the filled application (only in the prescribed format given in the next two pages) along with self-attested photocopies of supporting documents in a sealed envelope to the office of the Principal Investigator through **Registered Post**.
- Eligible candidates may send an email to [srir@nitt.edu](mailto:srir@nitt.edu) / [sriramshankar.iisc@gmail.com](mailto:sriramshankar.iisc@gmail.com), with the subject marked as “**JRF Application- SERB SRG Project - <Candidate’s Name>**” together with the attachment of the following documents.
  - (i) Cover Letter,
  - (ii) The duly filled application (the next two pages of this advertisement) together with self-attested photocopies of supporting documents scanned as a single merged PDF file,
  - (iii) Latest CV in a PDF file
- Mere fulfilling the abovementioned criteria will not be sufficient. Higher criteria for the selection of the candidates may be imposed based on the number of applications.
- The selection committee’s decision is final. If any applicant is found to canvass in any manner, the candidate selection shall be summarily rejected.
- Preference will be given to the candidate who is having good academic record, research potential, and relevant experience. However, the selection of the candidate would be based on their performance in the Interview.
- The date of interview, and mode of interview will be communicated to the shortlisted candidates by **E-mail**.
- Please note that NO T.A/D.A will be paid for attending the interview.
- Selected candidates are expected to join preferably immediately, or positively within 1 month of intimation of the results.
- **Age of the applicant less than 30 years as on the closing date of application is preferable**
- The last date for receipt of applications is till **04-May-2023, 11:59 PM IST**.
- Please note that the PI can be reached through email, with the subject marked as “**JRF - SERB SRG Project**” or at the address of correspondence given below.

### **Dr. Sri Ram Shankar R. (Principal Investigator)**

Assistant Professor,

Department of Instrumentation and Control Engineering

National Institute of Technology, Tiruchirappalli – 620015.

Email: [srir@nitt.edu](mailto:srir@nitt.edu), [sriramshankar.iisc@gmail.com](mailto:sriramshankar.iisc@gmail.com) .

Website: <https://www.nitt.edu/home/academics/departments/ice/faculty/>

[https://www.nitt.edu/home/academics/departments/ice/faculty/CV\\_SriRamShankar.pdf](https://www.nitt.edu/home/academics/departments/ice/faculty/CV_SriRamShankar.pdf)

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620 015.**  
**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING**  
**APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW**

<p style="text-align: center;">For Office Use only</p> <p>Serial Number allotted to the Applicant .....</p>  <p style="text-align: center;">Signature of the Application Screening Committee</p>	<p style="text-align: center;">Paste here your recent passport sizecolor Photograph</p>
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**APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW (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, E Mail ID					
9. Project Title					
10. Name of the Post applied for					
11. Advertisement Number with Date					
Academic Career: Enclose self-attested photo copies of the qualifying degree certificates and mark sheets/ grade cards showing the percentage of marks or CGPA from HSC onwards					
Name of Exam	School / University	Board/ University	Broad subjects of study	Year of Passing	% of marks /CGPA
S.S.L.C					
H.S.C					
Graduation					
Post-Graduation					
Any other					

**Enclose self-attested Photocopies**

12. GATE Score..... Subject.....  
..... Year.....

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

14. Work Experience, if any

Organization	Designation	Duration		Nature of Job
		From	To	

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

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

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17. Reference

Name	Address	Phone & E Mail ID

18. I do not have a relative among Faculty and Staff of National Institute of Technology, Tiruchirappalli.

19. 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)  
(5)