

ADVERTISEMENT IN NITT WEBSITE FOR RECRUITMENT OF PROJECT STAFF - SPECIMEN

(Important note: This is a Specimen only. Under the approval of the HoD concerned, Project Investigator can modify the content according to the requirement of the Project)

Dated: 16-06-2026

Applications are invited from Indian Nationals only for Project Positions as per the details given below, for consultancy / research projects, under the principal investigator **Dr Ankur Singh Rana, Electrical and Electronics Engineering**, in National Institute of Technology, Tiruchirappalli-15, Tamil Nadu.

Title of the Project	Hosting Capacity and Flexibility Market Enhancement using Decentralized Optimization in TSO-DSO-DER coordinated Framework
Name of the Funding Agency	Advanced Research Grant (ARG), ANRF
Scope of the Project	This project aims to develop a decentralized TSO–DSO–DER coordination framework that enhances renewable energy integration that jointly optimizes hosting capacity, flexibility utilization, and market participation. The project focuses on increment of power exchange capability at the TSO–DSO interface, enhancement of DER flexibility, mitigation of network congestion through Distribution Locational Marginal Pricing (DLMP), and enables risk-aware reserve procurement under renewable uncertainty. Application of distributed optimization, stochastic programming, and privacy-preserving coordination mechanisms, the framework integrates technical, economic, and operational aspects of power system management. The outcomes of the project will include enhanced renewable energy hosting capacity, efficient DER flexibility utilization, decentralized TSO–DSO coordination, reduced congestion and curtailment and market-driven integration of distributed energy resources.
Project Positions and Number	Position: Junior Research Fellow (JRF)/ Project Associate – I Number: 01
Duration of Project	The post is purely temporary in nature. Initial appointment is for the period of one (01) year , which can be extended up to THREE (03) years or till the project end date solely based on the satisfactory performance
Qualification	JRF: B.E/B.Tech. with First class in Electrical Engineering (EE) / Electrical and Electronics Engineering (EEE) / Electrical and computers Engineering/ Electrical and Instrumentation Engineering (EIE) Preference: M.E/M.Tech. in Power systems Engineering or equivalent (First class i.e. 60% or 6.5 CGPA) from recognized University/Institute with GATE score. (or) Project Associate – I: B.E/B.Tech. with First class in Electrical Engineering (EE) / Electrical and Electronics Engineering (EEE) / Electrical and computers Engineering/ Electrical and Instrumentation Engineering (EIE) Preference: M.E/M.Tech. in Power systems Engineering or equivalent (First class i.e. 60% or 6.5 CGPA) from recognized University/Institute.
Emoluments	For GATE qualified Candidates: JRF: First two years Rs. 37,000/- + HRA and Rs. 42,000/- +HRA for 3rd year (till last date of project) For Non-Gate Qualified Candidates: Project Associate – I: First two years Rs. 30,000/- + HRA and 33,000/- + HRA for 3rd year (till last date of project)
Age limit and relaxation details	32 years (relaxation as per GOI norms)
Job Description	- Power system Modelling & Optimization, Analysis - Perform coding, simulation, analysis and optimization.

	• Data Analysis and Report Generation • Writing reports & technical articles
Mode of Application	Interested candidates desiring to appear for the Interview should submit their applications in the prescribed format (available online on institute website www.nitt.edu) by 24 July 2026. (Extended) Eligible candidates may send the scanned copy of their duly filled applications along with the relevant supporting documents (Attested copies of degree/certificate) to ankur@nitt.edu as a single PDF document and also fill the google form below: https://forms.gle/bbssYptRq9NsLbfo9
Contact Details of PI	Dr. Ankur Singh Rana (Principal Investigator) Assistant Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli – 620015 (T.N.) Email: ankur@nitt.edu
Important Note	Only shortlisted candidates will be intimated by email and will have to appear for interview in OFFLINE MODE on the date as communicated through email. All the original documents will be verified before appearing for interview and candidate has to submit one self-attested copy of all the relevant documents. Candidates failing to produce documents in original on the day of interview may submit a declaration. If selected, the candidate must produce all the original documents during physical reporting. If anything is found wrong, the applicant's selection shall stand cancelled. Fellowships / Stipends to the students shall be paid post physical verification of the documents.

Additional information:

- Upon appointment, opportunity will be provided to register for a Ph.D. programme at NIT, Trichy subject to fulfilling Institute norms.

Age Limit:

- JRF/ PA-I: The upper age limit is 32 years as on the closing date of advertisement. The upper age limit shall be relaxable to the candidates belonging to SC/ST is 5 years and OBC is 3 years.
- Eligible candidates will only be called for interview as per the criteria set by the selection committee, percentage of marks obtained in qualifying degree.
- For JRF, GATE paper and subject of qualifying degree must be related to the subject/discipline against which the candidate is applying.
- Candidates serving in Govt. or in Govt. owned organization will be required to produce "NOC" from their respective Department/Employer at the time of interview failing which the candidate will not be allowed to appear for the interview or they should apply through proper channel.

General Instructions:

- Application should be furnished only in the prescribed format.
- Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- Incomplete applications are liable to be rejected.
- Only those candidates who have been awarded Degree/Provisional Certificate are eligible to apply.
- Copies of supporting documents should be scanned and emailed together with the application. All supporting documents should be submitted as a single PDF file.
- Candidates need to produce Original Certificates/Testimonial for proof of Category, Age, Educational Qualifications, GATE score, B.E./B.Tech. and M.E./M.Tech. marks memos and No Objection Certificate (where applicable) at the time of interview. One self-attested photocopy of all above documents should be submitted at the time of interview.
- The candidate must submit the supporting document for converting CGPA/CPI from concerned University.

- Please note that no TA/DA is admissible for attending the interview.
- Candidates should make their own arrangement for their stay and transport to NIT, Trichy.
- It may please be noted that offer of Fellowship will under no circumstances confer on candidates any right of absorption in NIT, Trichy. NIT reserves the right to cancel the fellowship at any point of time if the JRF/ PA-I candidate found not suitable after selection.
- Award of Fellowship shall not be claimed by any candidate as a matter of right. It shall be entirely at the discretion of the Selection Committee, which may refuse to admit any candidate without assigning any reason thereof.
- The last date and time of submission of duly filled in application **24.07.2026, 05:00 pm**.
- Applications should be submitted (only in the form of softcopy PDF form) with all necessary documents through email **ankur@nitt.edu**. For any details contact Dr. Ankur Singh Rana, Ph. No: **0431-2503276** between 14:30 to 17:00 Hrs on all working days (**Monday to Friday**).

**Signature of the Principal Investigator
(Dr. Ankur Singh Rana)**

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

(Important note: This is specimen template. Project Investigator can modify according to his requirement)

For Office Use only Serial Number allotted to the Applicant Signature of the Application Screening Committee Chairman	Paste here your recent passport size color Photograph
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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/NET ScoreSubject

.....Year.....

13. Have you or your relatives associated with NIT Tiruchirappalli? (if yes, provide the details)

14. Have you already associated/associating with NIT Tiruchirappalli. (Student/Project staff, etc.,)? (if yes, provide the details)

position	Duration		Nature of Job
	From	To	

15. Work Experience, if any

Organization	Designation	Duration		Nature of Job
		From	To	

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

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

18. Reference

Name	Address	Phone & E Mail ID

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/consultancy 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: 16-06-2026

Full signature of the Applicant

List of Enclosures: (1)

(2)

(3)

(4)