

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**ADVERTISEMENT FOR THE POST OF JUNIOR RESEARCH FELLOW**

**NITT/MEC/DST-SERB/JRF/2023**

**Dated 05.06.2023**

Applications are invited from Indian Nationals only for Project Positions as per the details given below, for research projects, under the principal investigator **Dr. R. Anand, Associate Professor, Department of Mechanical Engineering, in National Institute of Technology, Tiruchirappalli-15, Tamil Nadu.**

Title of the Project	:	<b>Sustainable Energy-Efficient Green Ammonia Production by Plasma-Water Interface</b>
Funding Agency for the Project specimen	:	<b>DST / SERB</b>
Project Positions, Number, Qualification, Emoluments, Duration:	:	<p style="text-align: center;"><b><u>Junior Research Fellow (JRF) :</u></b></p> <p><b>No of vacancy : 1 No.</b></p> <p><b>Qualification:</b> M.E/M.Tech in Thermal Engineering or Chemical Engineering or Environmental Engineering or anyother appropriate / relevant specialization with a valid GATE / equivalent national level test score is selected through any one of the Following:</p> <p>a) National Eligibility Tests –CSIR –UGC NET including lectureship (Assistant Professorship) and GATE.</p> <p>The selection process through National level examinations conducted by Central Government Departments and theiragencies and institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.</p> <p><b>Emoluments</b></p> <p>Rs. 31000/- + 16% HRA per month (For first two years)</p> <p>Rs. 35000/- + 16% HRA per month (For third year)</p>

	<p><b>Duration:</b> Three Years</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;"><b><u>Project Associate:</u></b></p> <p><b>No of vacancy :</b> 1 No.</p> <p><b>Qualification:</b> M.E/M.Tech in Thermal Engineering or Chemical Engineering or Environmental Engineering or any other appropriate / relevant specialization is desirable. With 2 years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and Scientific activities and services.</p> <p><b>Emoluments</b> Rs. 28,000/- + 16% HRA per month (For two years)</p> <p><b>Duration:</b> Two Years</p>
Job Description:	: <ul style="list-style-type: none"> <li><b>a.</b> To generate novel energy efficient and ecofriendly green ammonia using plasma water interface reaction.</li> <li><b>b.</b> To develop commercial scale non-thermal plasma reactor for ammonia generation.</li> <li><b>c.</b> Compilation of Results, Report Preparation and Presentation</li> <li><b>d.</b> The candidate selected as JRF is eligible to register for pursuing Ph.D. programme as per NITT rules and regulations after fulfilling requirements of Ph.D. programme.</li> </ul>

- A. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- B. Candidates desiring to appear for the Interview should submit their applications with the following documents to the Office of the Principal Investigator through Registered/ Post.
- C. Application should be furnished only in the prescribed format.
- 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. PI Can be reached through the mail (anandachu@nitt.edu ) with the subject marked as “**JRF-DST/SERB 2022**”
- I. PI Address for the correspondence.  
**Dr. R. Anand, Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli-620015, Tamilnadu, India.**
- J. The last date and time of submission of duly filled in application **20.06.2023**.

**Dr. R. Anand**

**Principal Investigator**

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW / PROJECT ASSOCIATE II**

<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 Chairman</p>	<p style="text-align: center;">Paste here your                  recent passport size                  colour Photograph</p>
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**APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW / PROJECT ASSOCIATE II**

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, Trichy.

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)