

Advertisement for the Post of Junior Research Fellow

Advt. No.: IIITDMK/PR/JRF/A30/2025

Date: 02/09/2025

Applications are invited for the following post. The post is purely on a contractual basis.

Name of Position	Junior Research Fellow (JRF)
Number of Positions	One
Nature of Work	Research
Duration of the Project	3 Years
Duration of the Position	The post is purely on a contractual basis and initially the post is for 12 Months, extendable to 2 more years.
Other Benefits	The selected candidates can register for the PhD degree in Jan 2026 at IIITDM Kancheepuram as per the Institute rules.
Stipend	Rs. 37,000/- pm
Title of the Sponsored Project	Development of sustainable products from banana pseudostem agriculture wastes
Funding Agency	DST-TDP
P.I / Co-P.I	Dr. Raguraman Munusamy / Dr. Rino Nelson N
Department	School of Interdisciplinary Design and Innovation
Educational Qualification	PG degree (ME/M.Tech) in Mechanical Engineering/ Production Engineering / Manufacturing Engineering / Automobile Engineering/ Mechatronics Engineering/ any allied branches (OR) UG degree (BE/B.Tech) in Mechanical Engineering/ Production Engineering / Manufacturing Engineering / Automobile Engineering/ Mechatronics Engineering/ any allied branches
Interview Schedule-Venue, Date & Time	19.9.2025 /10 am, Admin Building, IIITDM Kancheepuram

How to Apply and Selection Procedure:

1. Interested candidates are to fill application form as per the attached prescribed format, sign, and submit the hard copy at the time of Interview.
2. Candidates should be present physically at 9.45am on 19.9.2025 at IIITDM Kancheepuram located at Chennai - 600127 for the written test and interview.
3. Candidates should produce all educational and experience certificates at the time of interview for verification.
4. No TA/DA will be paid for attending the interview.
5. The selection process consists of written test followed by Interview. The topic for written test along with syllabus is enclosed.

For any clarification regarding the application process, the candidate may contact the PI. email: raguraman.munusamy@iiitdm.ac.in

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Written Test Pattern

The written test will be for 50 marks, 1 Hour duration, with multiple-choice questions. A scientific calculator is allowed for the written test.

Syllabus for Written Test

Engineering Mechanics: Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.

Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Machine Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.



Appl. No.:
(will be filled by Office)

APPLICATION FOR THE POSITION OF PROJECT STAFF

Candidates Photo
to be pasted here

1. Advertisement Number:
2. Name of the Post:
3. Candidate's Full Name (As per SSLC Mark sheet):
4. Father's Name of the Candidate:
5. Date of Birth of the Candidate:
6. Nationality:
7. Gender:
8. Category (Gen / OBC / SC / ST):
(For age relaxation only)
9. Address for Communication:
10. Permanent Address:
11. Contact Phone / Mobile Number(s):

12. Email Address:

13. Educational Qualifications Starting from Xth / SSLC:

Sl. No.	Degree & Branch	Institute / University	Year of Entry & leaving	Percentage / CGPA & Class	Mode (Regular / Part-time / etc.)

14. Academic Record: GATE/ CSIR - NET qualification details with percent marks / Rank, year of qualifying, etc.:

15. Names and addresses of two referees along with phone numbers and e-mail addresses:

a)

b)

16. Are you currently working in Central / State / Semi-Govt / PSU / Autonomous Bodies of the Govt.? (If yes, please submit NOC issued by your present employer):

17. Present Position / Designation:

18. Work Experience (in reverse chronological order including post held at present):

Sl. No.	Organization	Designation	Start Date & End Date	Pay Scale / Total Pay

19. If selected, time required to join:

20. Any other information you wish to mention:

UNDERTAKING

I hereby declare that I have carefully read and understood the instructions given in the Advertisement. All information furnished in this form as well as the attached documents are true and correct to the best of my knowledge and belief. I fully understand that if it is found at a later date that any information given in the application is incorrect / false or if I do not satisfy the eligibility criteria, my candidature / appointment is liable to be canceled / terminated.

Signature of the Applicant

Date: