



### Advertisement for the Post of Junior Research Fellow

**Advt. No.: IITDMK/PR/JRF/A14/2024**

**Date: 26<sup>th</sup> July 2024**

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	Fabrication / Development of experimental setup and experimental investigation
Duration of the Position	The post is purely on a contractual basis and initially, the post is for 1 Year. It may be extended up to 2 Years.
Stipend	Rs. 37,000/- pm for first two years & Rs. 42,000/- pm for third year
Title of the Sponsored Project	Experimental and Computational investigation of flow past innovative adaptive blades of Savonius turbine for effect energy harvesting
Funding Agency	SERB/ANRF - DST
P.I / Co-P.I	Prof. S Jayavel / Prof. Shaligram Tiwari
Department	Mechanical Engineering
Educational Qualification	1. UG - BE/B.TECH in Mechanical Engineering/Aerospace Engineering/Aeronautical Engineering/Automobile Engineering/Production/Manufacturing Technology 2. PG - ME/M.TECH in any branch mentioned above
Additional Qualification (Desirable, if any)	Knowledge in AutoCAD, AutoDesk etc.,
Age Limit	35 years as on Last date of receiving the application (Age relaxation is applicable as per Gol norms)
Interview Schedule:Date, Time & Venue	10.08.2024 at 10.00am IITDM Kancheepuram, Admin Building

**How to Apply and Selection Procedure:**

1. Interested candidates are requested to submit their applications in the enclosed prescribed format.
2. Take print of the application form, fill, sign, and submit the hard copy at the time of Interview.
3. Candidates should be present physically at IIITDM Kancheepuram located at Chennai - 600127 for the written test and/or interview.
4. Candidates should produce all educational and experience certificates at the time of interview for verification.
5. No TA/DA will be paid for attending the interview.
6. 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: [sjv@iiitdm.ac.in](mailto:sjv@iiitdm.ac.in)**

Sd/x

**Dean (SR)**



### Topics for Written Test

- 1) Engineering Mathematics (20 Marks)
- 2) Fluid Mechanics (30 Marks)

Total Duration for written test is 90 Minutes.

### Detailed Syllabus

**Engineering Mathematics:** Linear, Algebra, Differential equations, Statistics and Numerical Methods.

**Fluid Mechanics:** Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fitting; basics of compressible fluid flow.

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

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## 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 X<sup>th</sup> / 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: