



**DEPARTMENT OF AUTOMOBILE ENGINEERING  
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS,  
ANNA UNIVERSITY  
CHROMEPET, CHENNAI – 600 044**



**Dr. P SENTHIL KUMAR  
ASSOCIATE PROFESSOR**

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**Date: 08.12.2025**

**CALL FOR JUNIOR RESEARCH FELLOW**

Applications are invited for the position of **JUNIOR RESEARCH FELLOW(JRF)** for the project recommended by DST as detailed below:

Name of the Project	: Design, development and testing of industrial scale metal hydride-based devices for hydrogen storage and thermal storage applications.
Principal Investigator/ Co-PI	: Prof. P Muthu Kumar, IIT Tirupathi & Dr P Senthil Kumar, MIT, Anna University.
Funding Agency	: DST / Industry
Project Position	: Junior Research Fellow
Number of Post	: 1 (One)
Project Duration	: 3 (Three) Years
Emoluments per month	: Rs. 48,100/- (Rupees Forty Eight Thousand One Hundred Rupees Only) <b>consolidated</b>
Essential Qualification	<div>1. First class B.E. / B. Tech in Mechanical / Automobile / Mechatronics Engineering (OR) any other appropriate engineering relevant to Faculty of Mechanical Engineering with three years of experience (OR) 2. First class B.E/B.Tech and M.E / M. Tech in Automobile Engineering / Automotive Electronics / Mechatronics (OR) any other appropriate relevant to Faculty of Mechanical Engineering specialization</div> <p style="text-align: center;">GATE / Equivalent National Level Test score is desirable</p>
Max. age	: 32 years, as on i.e., 01.12.2025
Research Area	: 1. H <sub>2</sub> Internal Combustion engines
Job Description	: <ul style="list-style-type: none"><li>• To design, simulate and develop air – flow characteristics.</li><li>• To design, simulate and develop H<sub>2</sub> dual fuel engines</li><li>• To integrate the solid-state hydrogen storage systems to a dual fuel IC engine.</li><li>• To compile test results, Report Preparation and Presentation</li></ul>
Desirable	: <ul style="list-style-type: none"><li>• Applicants having knowledge and research experience in the above-mentioned research areas</li></ul>

- Applicants having sound fundamental technical knowledge in the field of Internal Combustion Engines
- Applicants working in modelling and simulation using MATLAB, Mechanical modelling and simulation tools, CFD, AVL Cruise M...etc (knowledge in the above one of the software's/tools)
- Past Research publications in reputed peer reviewed Journals.
- A strong commitment and motivation to pursue research in the subject area and having good communication skills

#### **General Information:**

1. Applicants before applying shall ensure that they are eligible for the position they intend to apply.
2. Application should be furnished only in the prescribed format.
3. The applicant will be responsible for the authenticity of information and other documents submitted.
4. The candidate selected as Junior Research Fellow is eligible to register for pursuing a Ph.D. programme as per Anna University rules and regulations after fulfilling the requirements of the Ph.D. programme.
5. Applicants should submit their applications along with the **self-attested copies** of academic certificates, experience certificates, paper publications, and other relevant documents to the CEAT by In-person / Registered Post.

**Correspondence Address: To Dr P Senthil Kumar, Associate Professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chromepet, Chennai – 600 044.**

6. The selection criteria would be as per the guidelines of Anna University.
7. Mere fulfilment of the minimum qualifications does not entitle any candidate for an interview call. The University reserves the right to set higher criteria than the essential qualifications for shortlisting the candidates.
8. The date and time of the written test and interview will be informed to the shortlisted applicants by email only.
9. Applicants shall bring the original certificates at the time of selection process for verification.
10. The selection committee decision is final.
11. No TA/DA is admissible for attending the interview.
12. The position is temporary and renewable every six months, subject to satisfactory performance for a duration of the project. However, the selected candidate is expected to work, till the completion of the project.
13. **The last date and time of submission of a duly filled-in application is 24.12.2025, 5.00 PM.**

**Note: Do not enclose the original certificates. Attach only the self-attested copies. During the time of the selection process, the original certificates were to be produced for verification.**

**Principal Investigator.**

# APPLICATION FOR THE POST OF JUNIOR RESEARCH FELLOW

1.	Name					Photo duly signed by the applicant		
2.	Date of Birth & Age							
3.	Permanent Address							
4.	Communication Address							
5.	Mobile Number							
6.	Email							
7.	Gender							
8.	Aadhar Number							
9.	Community	OC	BC	MBC	SC	ST		
10.	<b>Educational Qualification (Attach copies of certificates)</b>							
	<b>Degree</b>	<b>Branch</b>	<b>School / College</b>	<b>University</b>	<b>Year of passing</b>	<b>Percentage / CGPA</b>	<b>Class Obtained</b>	
	SSLC							
	HSC							
	ITI							
	DIPLOMA							
	B.E. / B.Tech.							
	M.E / M.Tech /MS							
11.	<b>Qualifying Examination (GATE/CSIR/UGC/NET/Others)</b>							
	<b>Sl. No.</b>	<b>Qualifying Examination</b>	<b>Branch</b>	<b>Year</b>	<b>Valid up to</b>	<b>Percentile</b>	<b>All India Rank</b>	<b>Any other information</b>

12.	<b>WORK EXPERIENCE (Experience certificate to be enclosed)</b>						
	<b>Name of the organization</b>	<b>Designation</b>	<b>Period</b>		<b>Nature of Work</b>	<b>Total experience</b>	
			<b>From</b>	<b>To</b>		<b>Years</b>	<b>Months</b>
		<b>Total experience</b>					
13.	Proposed Research / Problem Statement in the area of H <sub>2</sub> Internal Combustion Engines (Attach separate sheet, if required)						
14.	Additional Skill set / Information (if any):						

I, \_\_\_\_\_, certify that the information furnished above is true to the best of my knowledge and belief and that no related information is concealed. If any discrepancy is found at any stage, the Anna University has the right to cancel my application or termination of my service without any notice, if employed. I am also aware that this application is only for temporary post.

**Place:**

**Date:**

**Signature of the candidate**