



**PDPM INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING, JABALPUR**
(An Institute of National Importance established by Ministry of Education, Government of India)
Dumna Airport Road, Jabalpur - 482005, India

Advertisement for JRF Position in MPCST sponsored Project

Applications are invited from interested candidates for walk-in test/interview for the below mentioned position to work on a MPCST funded research project titled "**Development of an Integrated Multi-Parameter Engine Health Monitoring Framework for Combustion, Emission, Vibration and Lubricant Degradation Analysis in Compression Ignition Engines Powered by Various Biodiesel Blends.**".

Position & Number of Post: Junior Research Fellow (JRF) & One Post.

Problem Statement: To develop and establish a Compression Ignition (CI) engine test rig capable of operating with various biodiesel blends and enabling the simultaneous monitoring of combustion characteristics, emissions, vibration signatures, and lubricant degradation. Existing engine health monitoring approaches typically assess these parameters independently, resulting in limited diagnostic capability. The absence of an integrated multi-parameter monitoring framework hinders early fault detection, predictive maintenance, and optimized engine management under varying biodiesel operating conditions. This project aims to address this gap by developing a comprehensive engine health monitoring system for enhanced performance, reliability, and sustainability.

.Duration: Initially for one-year extendable for another year based on satisfactory performance and availability of funds.

Eligibility: B.E./B.Tech or M.E./M.Tech or equivalent in Mechanical or any allied branch relevant to the project. with 1st class. Preference will be given to GATE/NET qualified candidate. Age limit: Preferably below 40 years as on the date of interview. Note: Relaxation to SC/ST/OBC will be provided as per institute norms.

Salary: Rs. 20,000/- per month only.

Desirables: Candidates having hands-on experience of fabrication techniques, knowledge of thermodynamic modelling, simulation and modelling tools such as ANSYS/MATLAB/Solid works, etc will be given preference.

Date of Test/ Interview: Tentatively, **30-06-2026 at 11.00 AM**. The Interview will be conducted in Hybrid mode. The shortlisted candidates would be notified through email.
Note: 1. For any queries regarding the position, please feel free to contact **(Investigator)**

2. No TA/DA will be given to the candidates for appearing the interview.

Application Procedure: Candidates can apply for the above post by filling a Google form at <https://forms.gle/ddX7Z1isHuQSi71f8>

Important Dates: **Submission Deadline for Application Form: 25/06/2026**
The selected candidates will be eligible to register for the Ph.D. degree at PDPM IITDM Jabalpur, Madhya Pradesh as per the eligibility criteria against subsequent advertisement (possibly in November 2026).

Investigator:

Dr. Dada Saheb Ramteke and Dr. Tushar Choudhary,
Department of Mechanical Engineering
PDPM-Indian Institute of Information Technology Design and Manufacturing
Jabalpur, Madhya Pradesh, India - 482005
Email: dsramteke@iiitdmj.ac.in, tushar.choudhary@iiitdmj.ac.in
Contact No.: +91-9425805505 (M), +91-9752005705 (M)

