



Indian Institute of Technology (ISM) Dhanbad Office of the Dean (Research & Development)

Sanction No and Date:	IIT (ISM) Project No. CRF Mechanical Characterization Lab	Date : 16.12.2025
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Project Staff (JRF/SRF/RA/Project Assistant/Project Associate) position under (Name of Funding Agency) Project

Applications are invited under the sponsored project. The details of the project are as under:

Position	Project Scientist-II for Mechanical Characterization Lab
Number of Position (s)	One
Title of The Project	Mechanical Characterization Lab at CRF
Principal Investigator	Prof Amit Rai Dixit
Tenure of Project	3 years
Job Description (in maximum of 100 words)	The candidate will be responsible for the operation, maintenance, and data analysis of advanced mechanical characterization instruments such as the Universal Tribometer, Micro Hardness Tester, and Dynamic Mechanical Analyzer (DMA). Key responsibilities include supporting research activities, conducting material testing, training users, maintaining documentation and lab records. The candidate must have hands-on experience in sample preparation, equipment handling, data interpretation, and familiarity with ASTM/ISO standards. Prior knowledge of tribology, viscoelastic properties, and materials characterization is desirable. The role also includes assisting the faculty in lab management, project execution, proposal preparation, and ensuring safety compliance.
Essential Qualification	<ol style="list-style-type: none"> 1. Doctoral Degree in Material Science & Engineering/Mechanical Engineering/Aerospace engineering/Metallurgical Engineering or Master's degree in Material Science & Engineering/Mechanical Engineering/Aerospace engineering/Metallurgical Engineering or technology from a recognized university or equivalent. 2. Three years' experience in Research and development in industrial/academic institution / research and technology organization and scientific activities and services.

Desirable Qualification	<p>Proven hands-on experience with advanced mechanical characterization instruments, including:</p> <ul style="list-style-type: none"> • Universal Tribometer (wear/friction testing, scratch test, fretting fatigue) • Micro and Nano Hardness Tester
	<ul style="list-style-type: none"> • Dynamic Mechanical Analyzer (DMA) for viscoelastic behavior analysis • Experience in sample preparation, microstructural studies, and surface treatment techniques • Familiarity with thermal, fatigue, and creep testing protocols would be an added advantage • Sound understanding of ASTM/ISO testing standards
Age and Relaxation (if any)	40 years for UR candidate. For SC/ST/OBC and women candidates , age relaxation will be applicable as per GoI.
Fellowship	₹67000 + HRA (Increment of 5% for every 2 years of experience subjected to performance Review.
Last Date & Time	<p>30.12.2025 at 11:55 PM</p> <p>Interested and eligible candidates should email a single PDF containing the Biodata/CV, Self-attested copies of all the marksheets and certificates starting from graduation onwards, age proof, caste certificate (if applicable), work experience to the principal investigator at amitraidixit@iitism.ac.in within the above deadline.</p>
<p>Shortlisted candidates will be informed on the date of interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be short listed based on their merit and as per the requirement of the project. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.</p>	



(Signature of PI)