



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

Sanction No and Date: ANRF/ECRG/2025/002185/ENS 15 June, 2026	IIT (ISM) Project No. PFMS/SRDP/1348/G	Date: 27/07/2026
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Project Staff (JRF) position under ANRF-ECRG Project

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

Position	Junior research fellow (JRF)
Number of Position (s)	1
Title of The Project	π-DUST: Physics-Informed Data-driven Modeling and Uncertainty Quantification with application to Structural Twins
Principal Investigator	Suparno Bhattacharyya
Tenure of Project	3 years
Job Description (in maximum of 100 words)	Contribute to π-DUST , a research program developing data-driven technologies for engineering systems. The project combines computational mechanics, artificial intelligence, uncertainty quantification, and digital-twin technology. The selected candidate will work within an interdisciplinary team and engage with collaborators from institutions such as Texas A&M University and Penn State University. The position offers opportunities to contribute to research publications, open-source software, experimental validation, and industry-relevant solutions while building an international research network and a profile in computational engineering and digital twins.
Essential Qualification	A First-Class B.Tech/B.E. (GATE qualified) or a First-class M.E./M.Tech./M.sc. in Mechanical Engineering, Applied Mathematics, Applied Mechanics, Civil Engineering, Aerospace Engineering, Computational Engineering, or a related discipline, with knowledge of solid mechanics, structural dynamics, or

	finite element methods.
Desirable Qualification	• Prior research experience in application of AI/ML in structural systems is highly desirable. • Proficiency in python. • Background in control systems. • Proficiency in advanced computational and numerical tools such as ANSYS Fluent, COMSOL Multiphysics, MATLAB, and image-processing software. • Candidates holding a Masters in the relevant research areas will be given preference. • Additional preference will be given to applicants with peer-reviewed journal publications in the relevant areas.
Age and Relaxation (if any)	Upper age limit is 32 years as on 1st January 2026 for UR candidate. For SC/ST/OBC and women candidates, age relaxation will be applicable as per Gol.
Fellowship	37,000 INR (Basic) + 20% HRA
Last Date & Time	27/08/2026 at 11:55 PM Interested and eligible candidates should email the Principal Investigator at suparno@iitism.ac.in by the stated deadline. Email subject: Application for Project Associate-I (PI-DUST) – [Applicant’s Full Name] The email must include a view-accessible Google Drive link to a folder containing the following documents in PDF format: • Biodata/CV • Self-attested mark sheets and certificates from graduation onward • Proof of age • Caste certificate, if applicable • Work-experience certificates, if applicable Do not attach any files directly to the email, as emails containing large attachments may be rejected by the IIT email system.

	The email body should serve as a cover letter and must not exceed 400 words. Applicants should explain, in their own words, why they wish to join the project and how their education, projects, technical skills, research experience, or work experience support their interest. AI-generated, generic, or templated emails are strictly discouraged. Long emails, incomplete applications, inaccessible Google Drive folders, emails with attachments, or emails without the specified subject line may be discarded.
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.	

Sufarno Bhattacharyya

(Signature of PI)