



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

Sanction No and Date: ANRF/ECRG/2025/001672/ENS Date: 15/06/2026	IIT (ISM) Project No.: SRDP 1332 G	Date: 01/10/2026
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Project Staff (Junior Research Fellow) position under ANRF-ECRG Project
Applications are invited under the sponsored project. The details of the project are as under:

Position	ANRF – JRF
Number of Position (s)	01 (One)
Title of The Project	Optimizing Dissimilar WAAM Ti6Al4V-Ti6Al2Sn4Zr2Mo0.1Si for Aerospace Structural performance
Principal Investigator	Dr. Vivek Kumar Sahu, Assistant Professor, Department of Fuel, Minerals & Metallurgical Engineering, IIT (ISM) Dhanbad Jharkhand – 826004, Email: viveksahu@iitism.ac.in
Tenure of Project	Three years
Job Description (in maximum of 100 words)	Applications are invited for this JRF position to investigate the microstructure, mechanical behavior, and structural integrity of dissimilar WAAM-fabricated titanium alloys for aerospace applications. The selected candidate will optimize the microstructure using advanced characterization such as EBSD, SEM, and optical microscopy, and conduct tensile, fatigue, and fatigue crack growth studies. The candidate will also work on thermodynamic and kinetic simulations (e.g., Thermo-Calc/DICTRA) and crystal plasticity modeling with the project PI. The selected candidate may be allowed to enroll in PhD program if the required criteria for PhD admission at IIT(ISM) Dhanbad is fulfilled.
Essential Qualification	B.E./B.Tech (with NET/GATE qualification) or M.E./M.Tech (with GATE qualification) in Metallurgical Engineering, Materials Science & Engineering, Production Engineering, Manufacturing Engineering, Mechanical Engineering or other relevant disciplines
Desirable Qualification	Candidates with prior research experience and knowledge related to additive manufacturing, microscopy, mechanical testing etc. will be preferred.
Age and Relaxation (if any)	35 Years
Fellowship	INR 37000/- per month + HRA
Last Date & Time	Interested candidates are requested to send their CV along with self-attested marksheets, degree certificates as a single PDF to the PI by email (viveksahu@iitism.ac.in) by 20/10/2026 . Candidate should write “Application for JRF position in project No. SRDP 1332 G” in the subject of email.

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 shortlisted 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.

Vivek Kumar Sahu
01/10/2026
(Signature of PI)