



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

Sanction No and Date: EMDR/SG/13/2025-01-06363, 24/02/ 2026	IIT (ISM) Project No.: SRDP 1273 G	Date: 03/03/2026
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Project Staff (Project Technical Support-III) position under ICMR Project

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

Position	Project Technical Support-III
Number of Position (s)	1
Title of The Project	Development of Shape-Adaptive PLA Scaffolds functionalized with Allogenic Osteoblast-Derived Matrix for Alveolar Bone Regeneration in a Translational Minipig Model
Principal Investigator	Dr. Kesavan Ravi, Assistant Professor, Department of Fuel, Minerals & Metallurgical Engineering, IIT (ISM) Dhanbad
Tenure of Project	3 years
Job Description (in maximum of 100 words)	The Project Technical Support–III will assist in CAD design, 3D printing, and fabrication of shape-adaptive PLA scaffolds for bone regeneration. Responsibilities include operation and maintenance of FDM 3D printer, scaffold surface functionalization, sample preparation, and materials characterization (FTIR, SEM, mechanical testing, wettability). The candidate will maintain experimental records, support data analysis and statistical evaluation, manage consumables, and ensure laboratory safety and documentation compliance. The position requires hands-on experience in additive manufacturing and materials testing, with the ability to work independently under the supervision of the PI.
Essential Qualification	B.E./B.Tech in Mechanical/Metallurgical/Materials/Production/Polymer/Additive Manufacturing (or allied) + 3 years relevant experience, OR M.E./M.Tech in Mechanical/Metallurgical/Materials/Production/Polymer/Additive Manufacturing (or allied)
Desirable Qualification	<ul style="list-style-type: none">• Prior hands-on experience in FDM/FFF 3D printing, especially polymer (PLA/SMP) processing.

	<ul style="list-style-type: none"> • Proficiency in CAD software (SolidWorks / Fusion 360 / AutoCAD / ANSYS). • Experience in materials characterization techniques such as FTIR, SEM, UTM (mechanical testing), contact angle measurement, or surface profilometry. • Knowledge of polymer processing, shape-memory materials, or biomaterials. • Familiarity with experimental design and basic statistical analysis (ANOVA, Origin/Excel/SPSS). • Experience in handling laboratory documentation, SOP preparation, and equipment maintenance. • Ability to work independently in a research laboratory and manage project timelines.
Age and Relaxation (if any)	<ul style="list-style-type: none"> • No age limit
Fellowship	Rs. 28000 P.M. + 20% HRA (increment 5% on initial emoluments after completing for every 2 years)
Last Date & Time	14 days from the date of advertisement
<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> <p>Application (CV and relevant supporting documents) need be sent to kesavanravi@iitism.ac.in by the deadline.</p>	

(Signature of PI)