



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

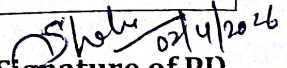
Sanction No and Date: 2025/001125/ENS 12-03-2026	IIT (ISM) Project No. SRDP 1279 G	Date: 02-04-2026
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Project Staff (JRF) position under the ANRF Project

Applications are invited under the ANRF-funded project. The details of the project are as follows:

Position	Junior Research Fellow (JRF)
Number of Position (s)	01
Title of The Project	High-Performance supercapacitors and electrochemical biosensors from Ayurvedic biomass waste: A circular economy approach toward sustainable energy and sensing solutions
Principal Investigator	Dr. Shalu Rani , Assistant Professor, Dept of Electronics Engineering, IIT (ISM) Dhanbad. Email: shalu@iitism.ac.in
Tenure of Project	Maximum three years or till the end of the project, whichever is earlier, subject to satisfactory performance and project requirements. The JRF will have the chance to apply for a PhD position in the Department of Electronics Engineering, IIT (ISM) Dhanbad, following the institute's guidelines.
Job Description maximum of 100 words)	The project aims to develop flexible supercapacitor devices for energy storage and electrochemical biosensor devices for the detection of biological molecules using Ayurvedic biomass waste materials (collection from nearby areas) and their composites with various 2D metal oxides.
Essential Qualification	B.E./B.Tech in Electronics/Electronics & Communication/ Electronics & Telecommunication or related field with first class or first division with GATE/NET or any other national level exam [OR] M.Tech./M.E./MS in Electronics/Electronics & Communication/Nanotechnology or related field with first class or first division [OR] M.Sc in Electronics/Physics with first class or first division with GATE/NET or any other national level exam.
Desirable Qualification	Preference will be given to candidates with experience in the relevant field Prior hands-on experience in material fabrication and development of energy storage devices and electrochemical biosensors Hands-on experience in CV, GCD, and EIS. Experience/knowledge in XPS, FESEM, XRD, TGA, FTIR, sputtering, and lithography. Ability to work independently in a research laboratory and manage lab equipment and project timelines.
Age and Relaxation (if any)	As per the norms of ANRF, Govt of India.
Fellowship	₹37,000 + 20% HRA per month (1 st & 2 nd Year) ₹42,000 + 20% HRA per month (3 rd Year upon successful assessment of previous work)
Last Date & Time	25 April 2026, 6:00 PM Interested candidates should email a single PDF [containing (i) CV, (ii) GATE/NET score card, (iii) self-attested copies of all mark sheets and certificates starting from 10 th class, (iv) proof of work experience (if any)] to PI shalu@iitism.ac.in on or before the above deadline. Candidates should write "Application for JRF position in ANRF Project" in the subject of the email.

Shortlisted candidates will be informed on the date of the interview. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirements 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.


(Signature of PI)