



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

Sanction No and Date: 265/2026-27 and 09/07/2026	IIT (ISM) Project No. PFMS/SRDP/1341/G	Date: 05/08/2026
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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	ANRF-Junior Research Fellow (ANRF-JRF)
Number of Position (s)	01
Title of The Project	Deployment of Friction-Stir-Welded Al-Cu Interconnects for Shape-Engineered Structural Li-ion Battery Packs for Next-Generation Electric Vehicles
Principal Investigator	Dr. Omkar Mypati, Mechanical Engineering, IIT (ISM) Dhanbad
Tenure of Project	3 Years (The candidate will be allowed for PhD enrolment as per the institute rules)
Job Description (in maximum of 100 words)	The candidate will work on the development and characterization of friction stir welded (FSW) lithium-ion battery modules for electric vehicle applications. Responsibilities include synthesis and characterization of battery-related materials, electrochemical testing, microstructural analysis, and evaluation of electrical and thermal performance of welded joints. The candidate will conduct laboratory experiments, analyse data using scientific software, maintain research documentation, and assist in prototype fabrication and validation. Prior experience in electrochemical techniques (CV, EIS, GCD, LSV), nanomaterial synthesis, and advanced material characterization (XRD, FESEM, XPS, TEM, FTIR, TGA) will be advantageous. Strong teamwork, research aptitude, and scientific writing skills are essential.
Essential Qualification	Post Graduate Degree in in Mechanical/ Electronics/ Computer Science and M.Sc. in Chemistry/ Material Science/ Nano Technology/ Energy Sciences OR Graduate/ Post Graduate Degree in Professional Course selected through a process described through any one of the following: (i) Scholars who are selected through National Eligibility Tests- CSIR-UGC NET including lectureship (Assistant Professorship) and GATE. (ii) The Selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MOE, ICAR, ICMR, IIT, IISC, IISER, NISER etc

M. Omkar

(Signature of PI)

Desirable Qualification	M.Tech / PhD in Mechanical, CSE, Electronics or M.Sc/PhD in chemistry, Materials Science, nanotechnology and energy sciences or allied fields. Candidates should have knowledge in energy storage materials, lithium-ion batteries, electrocatalysis, supercapacitors, and electrochemical characterization.
Age and Relaxation (if any)	Maximum age: 35 years at the time of appointment. Age relaxation will be applicable as per Government of India norms for SC/ST/OBC (Non-creamy layer)/PwD candidates.
Fellowship	₹37,000/- per month (for the first two years) and the Fellowship 42000/- in third year will be awarded after successful assessment(for the third year)
Last Date & Time	20 th August 2026. Interested candidates may apply through this link & QR code Link: https://forms.gle/W3WPk8QAKfroJX3d7 QR Code: 
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.	

M. Anka

(Signature of PI)