



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

Research & Development Office

ADVERTISEMENT NO. SPON/10370/Advt0345 DATED 13.10.2026

Applications are invited for a temporary position of **Post-Doctoral Fellow** at IIT Gandhinagar. The details are as below:

Name of PI	Prof. Harini Subramanian	Department	Mechanical Engineering
Project title	Modelling of fibre reinforced polymer composite manufacturing process and prediction of process induced residual stresses and deformation		
Designation	Post-Doctoral Fellow		
Number of positions	1		
Application Link	http://recruitment.iitgn.ac.in/projectstaff/		
Last date of application submission	04.11.2026		
Consolidated Monthly Remuneration	Rs. 72000/- per month		
Duration of appointment	1 year		
Eligibility Norms	☐ Institute norms ☒ Funding Agency norms		
Essential Qualification/Experience as per the norms	A PhD in Mechanical/Aerospace/Civil/Materials/Chemical Engineering, Applied Mechanics or an allied area. Candidates who have submitted their PhD thesis are also eligible to apply. The candidate should have a strong background in solid mechanics/continuum mechanics and experience with finite element analysis, demonstrated through their doctoral research. The percentage/grade points with respect to the academic qualifications will be a minimum of 60% or equivalent grade from graduation onwards and 55% or equivalent grade in class 10th and 12th.		
Desirable Qualification/Experience	Research experience with polymers or fibre-reinforced polymer composites, including constitutive modelling. Experience with commercial or in-house FE codes (e.g., Abaqus/ANSYS/COMSOL); experience writing user subroutines (UMAT/VUMAT) is an advantage. Hands-on experience with thermal and mechanical characterisation (DSC, DMA) and/or strain sensing using Fibre Bragg Grating (FBG) sensors is a plus. Good communication skills and the ability to plan and carry out simulations and experiments independently.		
Job Description	The position involves solid mechanics-based modelling of fibre-reinforced polymer composites for aerospace applications, supported by targeted experiments, under an ARDB-funded project at IIT Gandhinagar. The candidate will develop a finite element framework to predict the response of polymer composites under various loading and processing conditions. Experimental work includes thermal and mechanical characterisation of polymers using DSC and DMA, temperature measurement during composite fabrication, and strain measurement using FBG sensors. The experimental data will be used to calibrate and validate the models. The candidate is expected to publish in reputed journals and contribute to project reports.		
Contact	Prof. Harini Subramanian harini.subramanian@iitgn.ac.in		

“Merely meeting the minimum eligibility criteria will not guarantee the shortlisting and/or appointment. A higher cutoff level may be used. The Institute reserves all rights, not to call an applicant for a selection test or not to fill up a position through this round of selection process without assigning any reason.”