Thapar Institute of Engineering and Technology, Patiala (Deemed-to-be-University u/s 3 of the UGC Act, 1956)



DEPARTMENT OF CHEMICAL ENGINEERING

March 28, 2025

ADVERTISEMENT FOR JUNIOR RESEARCH FELLOW IN DASSAULT SYSTEMES FOUNDATION SPONSORED PROJECT

DSF Contract ID: 2025-2080

Project Title: Upcycling Textile Waste into Sustainable and High Impact Strength GFRP Nanocomposites

Position: Junior Research Fellow (JRF)

Duration: 12 months (initially)

Stipend: Rs. 41000/- per month in total

About the project: This research aims to develop advanced GFRP nanocomposites by
using recycled spandex fibers as a micro-filler, silicate platelets as nano-filler and glass
fibers as macro-fillers for improved impact strength of GFRPs. The study focuses on costeffective, high-performance composites, potentially leading to patentable innovations.
Outcomes include scholarly articles and a detailed report. Ultimately, this research seeks
to revolutionize GFRP processing, enhancing the composite performance, and
contributing significantly to high impact applications.

Qualifications:

Essential: M.E./M.Tech. in Chemical Engineering/Mechanical Engineering/CAD/CAM Engineering/Production Engineering or other relevant disciplines.

Desirable: This project requires expertise in materials science, composites manufacturing, mechanical testing, and metallurgical analysis, along with proficiency in CAD/FEM simulations.

Last date of application: April 06, 2025

How to Apply:

- 1. Interested candidates are requested to submit a detailed CV through email (with the subject as "Project Vacancy for Upcycling Textile Waste into Sustainable and High Impact Strength GFRP Nanocomposites") to the PI (rmehta@thapar.edu) before the last date. A copy of email may also be forwarded to tarunnanda@thapar.edu.
- 2. Shortlisted candidates will be intimated for the online interview by email only.
- 3. The candidate selected for the above position may also get enrolled for Ph.D. degree simultaneously as per the Institute norms.
- 4. In case of any query related to the above project, kindly email to **Dr. Tarun Nanda** (94635-86083) or **Dr. Gautam Setia** (84377-60248).