



Department of Mechanical Engineering
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

Ref. No. NITK/ME/1578/2026

25-09-2026

Advertisement for Junior Research Fellow (JRF)

Applications are invited for the position of Junior Research Fellow (JRF) in a research and development project (DST-SYST) with following details:

Title of the project:

“Design and Development of Hybrid-FRP Based Composites for Low-Cost and sustainable Mobile Shelter Houses”

Principal Investigator:

Dr. Saurabh Chandraker,
Assistant Professor (Grade-1), Department of Mechanical Engineering,
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Co-Principal Investigator:

Dr. Ranjeet Kumar Sahu,
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Name of the position: Junior Research Fellow (JRF)

No. of Positions/Vacancies: One

Qualifications:

Essential Qualifications:- Candidate with **B.E./B.Tech** in Mechanical/Production Engineering/Automobile Engineering/ Mechatronics Engineering/ Metallurgy Engineering/Industrial Engineering/ Electrical Engineering/Electronics and Communication Engineering/Chemical Engineering and other allied disciplines with a minimum of 60% aggregate score (6.5/10 CGPA). Candidate must have qualified GATE examination. (Old GATE score is also considered).

(OR)

M.E./M.Tech. in Manufacturing/Production Engineering/Welding Technology/Machine Design/Mechatronics / Power Electronics/ Control Engineering/ Thermal Engineering/Automobile Engineering / Chemical Engineering and other allied areas with a first division in both graduate and post graduate degrees. Candidate must have qualified GATE examination (Old GATE score is also considered).

Desired Skills:-

- Basic exposure to software such as MATLAB, ANSYS, COMSOL.
- Ability to work in a team, good communication skills, experience in experimental research for the fabrication of the setup and characterisation of the products.

Age Limit:-35 Years (Preferrable)

Salary:-

- **Rs. 37,000/month (for JRF) + HRA (20%)**

Duration: 08 Months (approx.) or up to the termination of the project, subject to annual performance review. The candidate is encouraged to apply for M.Tech (Research)/PhD at NITK, Surathkal.

How to apply: Interested candidates must apply with the following documents (1) JRF Application Form, (2) Cover letter, (3) Bio-data with passport-sized photograph, (4) Scanned copies of educational certificates and mark sheets, class XII onwards (5) GATE qualified certificate and (6) Scanned copies of Proof for research experience, special achievements, and publications, if any.

The soft copies of all the above documents (pdf format) must be **emailed to the P.I., Dr. Saurabh Chandraker (schandraker@nitk.edu.in) by 7th October, 2026**. The email address for correspondence is given above. Only shortlisted candidates will be intimated by email and called for **an offline interview**. The position is available immediately. The interview is likely to be held during the 2nd or 3rd week of **October 2026**. The appointment will be on a purely temporary basis, co-terminus with the project.

About the project:

Total duration: 3 YEARS (2024-2027)

Funding Agency: **Department of Science and Technology-SYST**

Project summary:

The proposal is about developing an origami house using hybrid composites. Based on prior research and facts, we have developed a few composites that are inexpensive and can be used to build the house's walls. These hybrid composites not only help with load-carrying capacity but also provide water-resistant properties. These composites can be part of the house's walls and floor, while our aim is to provide a solar rooftop, so the house can become a self-energised, sustainable home.