

No: Advt/ IITT/CSRC/2223/19

Date: 01-02-2023

Applications are invited from eligible Indian nationals for the Junior Research Fellow (JRF) post in a time-bound sponsored project undertaken in the Department of Chemical Engineering.

Temporary Position	Junior Research Fellow – 1
Essential Qualification	Master in Chemistry or Bachelor/Master in Chemical Engineering / Mechanical Engineering/ equivalent discipline NET/GATE qualified candidate will be preferred.
Project Title	IKS center for Kalamkari art, natural farming, and food preservation at IIT Tirupati
Sponsoring Agency	Indian Knowledge Systems, AICTE, Ministry of Education
Consolidated monthly Salary	Rs. 31,000 per month + HRA
Principal Investigator	Prof. KSMS Raghvarao
Department/Centre	Chemical Engineering
Tenure of Assignment	Initially 6 months and will be renewed maximum up to 2 years based on the candidate performance and availability of funds
Desired Experience	<ul style="list-style-type: none"> ● May have exposure to experimental research on process/product development, including equipment design ● Must be willing to work on standardized process for the preparation of natural dyes and dyeing process with mechanization to reduce the drudgery, characterization & standardization of the natural dye preparation process, including scale up ● Must be willing to work efficiently in a team environment, self-motivated, field trips, and work under a variety of challenging research conditions ● Must have good oral and written communication skills ● Must demonstrate the highest work ethics.
Nature of the Work	Deciphering the chemistry behind the natural dyes prepared by ancient traditional methods; Standardizing the natural dye preparation and dyeing process for ease of maintaining uniform quality, making them adaptable to changing temperature /weather besides documentation; Standardization of Kamakari dye preparation and dyeing process, process demonstration, and training Participation in documentation, dissemination, and training generation mainly for tribal & rural youth
Age Limit	Age limit- Not more than 30 years. (Relaxed for exceptional candidates)
Last date application	15 th February 2023

Eligible candidates must send a **detailed CV (maximum 2 pages)** specifying their qualifications and experience **and a brief statement of purpose** on or before 15th February 2023 to Prof. KSMS Raghavarao, Professor, Department of Chemical Engineering, IIT Tirupati (Email: raghava@iittp.ac.in)

The statement of purpose must include responses to the following questions:

1. What motivates you towards pursuing the JRF position? (max. 200 words)
2. Describe your research interests in the advertised area. (max. 300 words)
3. Explain, how your prior research experience will be suitable for this project. (maybe explained using schematics, figures, flowcharts, and relevant references). (max 500 words)

The shortlisted candidates will be informed by **Email only**. Selection will be based on the qualification, experience, and interview. **The interview and other logistics will be conducted via hybrid mode**. The interview date will be notified to the shortlisted candidates by Email. The candidate may appear in the interview through video conferencing. IIT Tirupati reserves the right to reject any or all the applications without assigning any reason thereof.

Note: No TA/DA shall be paid to candidates appearing for an interview online or offline. Selected candidates will need to join their duty within two weeks of acceptance of the offer for the fellowship.

Dean CSRC