

No: Advt/ IITT/CSRC/2223/18

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	Bachelor/ Master in Chemical engineering/Food Technology or equivalent discipline. GATE qualified candidate will be preferred.
Project Title	Nanotechnology interventions for process intensification for production of value-added products from coconut
Sponsoring Agency	Coconut Development Board, Kochi, Kerala
Consolidated monthly Salary	Rs. 31,000 per month + HRA
Principal Investigator	Dr. Narendra Singh
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"> ● Exposure to experimental research on food science and technology is preferred. ● Exposure to experimental studies on membrane technology is preferred ● Must be willing to work on developing value-added products from coconut. ● Must be willing to work efficiently in a team environment, self-motivated, 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	Developing nanotechnology-based hybrid membrane process to remove traces of fat from coconut whey and subsequent recovery of proteins. Development of nanotechnology-based adsorbents/membrane process for removal of residual moisture from virgin coconut oil. Developing nanotechnology-based osmotic membrane process for the cold sterilization of tender and mature coconut water. Sensory analysis and storage studies of the products. Scale up, pilot plant studies, and Technology Transfer
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 Dr. Narendra Singh, Assistant Professor, Department of Chemical Engineering, IIT Tirupati narendra@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.

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