

No: Advt./ IITT/CSRC/2324/12

Date:06-11-2023.

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

Temporary Position	<u>Senior Research Fellow</u>
Essential Qualification	CGPA equivalent to first class in Master of Mechanical Engineering with specialization in the Thermal / Energy Science with five-year experience or PhD in Thermal Science / Energy. or CGPA equivalent to first class BTech/BE in Mechanical Engineering, qualified in GATE examination with good academic background and should have three years research experience in the domain of the project.
Project Title	Design, Development, Testing and Automation of LPG, PNG and CNG Operated Refractory Burners for Cooking and Industrial Applications
Sponsoring Agency	SERB, DST
Consolidated monthly Salary	Rs. 42,000 + HRA as applicable
Principal Investigator	Prof. P. Muthukumar
Department/Centre	Mechanical Engineering
Tenure of Assignment	Six Months and may be extended for one more year based on the performance.
Desired Experience	<ul style="list-style-type: none"> ● Must have exposure to Porous Medium Combustion ● Adequate knowledge in heat transfer and thermal modeling ● Must have exposure to testing of domestic burners as per BIS ● Must have adequate knowledge in ceramic and their thermophysical properties ● Willing to travel and work with industrial partner at Coimbatore, Tamil Nadu and Morbi, Gujarat. ● 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. ● Should submit Conduct certificate or NOC
Nature of the Work	This work focuses on the design, development and testing of Porous Radiant Burners for cooking and other industrial applications. Candidate is expected to work in close coordination with the industrial partners for the development of the burners. Field trials at various places in India need to be carried out at actual cooking environment. Candidate is also expected to conduct product demonstration workshops across India.
Age Limit	40 years or less as on 21st Nov. 2023.
Last date application	21 st Nov 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 **21st November 2023** to csrc_recruitment@iittp.ac.in and pmkumar@iittp.ac.in

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

1. Describe your research interests in the advertised area
2. Explain the tentative research plan briefly by using schematics, figures, flowcharts, and relevant references.

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 online only**. 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.

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