

No: Advt/ IITT/ CSRC/2223/11

Date:10-10-2022.

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.

<b>Temporary Position</b>	<u>Senior Project Fellow – 1</u>
<b>Essential Qualification</b>	First Class in Master of Mechanical Engineering with specialization in the Thermal / Energy Science.
<b>Project Title</b>	Design, development, Testing and Commercialization of Porous Radiant Burners for Domestic Cooking and Industrial Applications
<b>Sponsoring Agency</b>	INAE, DST
<b>Consolidated monthly Salary</b>	Rs. 40,000 per month
<b>Principal Investigator</b>	Prof P Muthukumar
<b>Department/Centre</b>	Mechanical Engineering
<b>Tenure of Assignment</b>	11 Months and may be extended for two more years based on the performance.
<b>Desired Experience</b>	<ul style="list-style-type: none"> <li>● Must have exposure to Porous Medium Combustion</li> <li>● Adequate knowledge in heat transfer and thermal modeling</li> <li>● Must have exposure to testing of domestic burners as per BIS</li> <li>● Must have adequate knowledge in ceramic and their thermophysical properties</li> <li>● Willing to work with industrial partner at Coimbatore, Tamil Nadu</li> <li>● Willing to work efficiently in a team environment, self-motivated, and work under a variety of challenging research conditions</li> <li>● Must have good oral and written communication skills</li> <li>● Must demonstrate the highest work ethics.</li> </ul>
<b>Nature of the Work</b>	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.
<b>Age Limit</b>	Age limit- Not more than 35 years. (Relaxed for exceptional candidates)
<b>Last date application (Extended)</b>	15 <sup>th</sup> October 2022.

Eligible candidates must send a **detailed CV (maximum 2 pages)** specifying their qualifications and experience **and a brief statement of purpose** on or before **15<sup>th</sup> October 2022** to Dr. P Muthukumar, Professor, Department of Mechanical Engineering, IIT Tirupati @ [pmkumar@iittp.ac.in](mailto: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.