

No: Advt/ IITT/CSRC/2223/23

Date:24-02-2022.

Applications are invited from eligible Indian nationals for the Senior Project Engineer post in a time-bound sponsored project undertaken in the Department of Mechanical Engineering.

<b>Temporary Position</b>	Senior Project Engineer
<b>Essential Qualification</b>	<b>PhD in Hydrogen Energy with proven research record in terms of publication and patents, with B.Tech and M.Tech in Mechanical or Energy Engineering.</b>
<b>Project Title</b>	DST-IIT Bombay Energy Storage Platform on Hydrogen
<b>Sponsoring Agency</b>	DST
<b>Consolidated monthly Salary</b>	Rs. 50000 per month
<b>Principal Investigator</b>	Prof P Muthukumar
<b>Department/Centre</b>	Mechanical Engineering
<b>Tenure of Assignment</b>	One year 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 extensive hands on in handling Metal Hydride-Hydrogen Systems</li><li>• Must have experience and capability of designing and developing experimental facilities related to MH-Hydrogen Systems.</li><li>• Must have experience in handling and analyzing gas samples using Gas Chromatography</li><li>• Adequate knowledge in using at least one simulation tools like COMSOL, Ansys, etc.</li><li>• Willing to work efficiently in a team environment, self-motivated, and work under a variety of challenging research conditions</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 Metal Hydride-Hydrogen Systems for Engineering application like hydrogen storage, hydrogen purification, hydrogen compression, cooling and heating. Candidate is expected to work in close coordination with the research team and funding agencies for the development of the MH-Hydrogen Systems.
<b>Age Limit</b>	Age limit- Not more than 35 years (Relaxed for exceptional candidates)
<b>Last date application</b>	5 <sup>th</sup> March 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 **5<sup>th</sup> March 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.