

Advt/ IITT/CSRC/2023-24/04

Date: 23 June 2023

Applications are invited from eligible Indian nationals for the post of Project Scientist-I in a time-bound consultancy project undertaken in the Department of Mechanical Engineering.

<u>Temporary Position</u>	<u>Project Scientist I</u>
Essential Qualification	Doctoral Degree in Science or Master's Degree in Engineering or Technology from a recognized University or equivalent.
Project Title & Description	Digital Twin Framework for Automobile Brake NVH Description: Major tasks of the project involve development of mathematical models and controlled experimental setup for automotive brakes.
Sponsoring Agency	Altair Engineering India, Bangalore
Consolidated monthly Salary	INR 61,600
Principal Investigators	Dr. Sriram Sundar
Department/Centre	Mechanical Engineering
Tenure of Assignment	1 year, extendable subject to satisfactory performance
Essential skills/ knowledge	Vibrations, Dynamic analysis, Acoustics and Finite element analysis
Desired Experience	Exposure to relevant fields encompassing reliability analysis; fabrication procedures; vehicle dynamics; automotive NVH; signal processing; and statistics. <ul style="list-style-type: none"> • Must be proficient in CAE tools such as SolidWorks, Hyperworks, Abaqus, and ANSYS. • 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 highest work ethics.
Nature of the Work	The person would be responsible for the following: <ul style="list-style-type: none"> • Formulation of analytical and numerical models • Development of the experiment and data acquisition through test runs. • Assist in fabrication (in-house or outside) and installation of the components of the mechanical subsystems as well as instrumentation of the systems. • Perform actual test runs and help develop test protocols / standards.
Age Limit	35 years (Relaxed for exceptional candidates)
Last date of Application	4 July 2023
Notes	Given the nature of the project, work needs to be carried out in the laboratory and field. Therefore, it is expected that the candidate resides on-campus IITT to create and use the laboratory facilities to complete the tasks.

Eligible candidates must send a **detailed CV** specifying the qualifications and experience **and a statement of purpose (CV and statement of purpose must be sent as a one-single PDF with name clearly marked on the file as follows: IIT_PS_Sriram)** on or before **4 July 2023** to Dr. Sriram Sundar, Assistant Professor, Department of Mechanical Engineering, IIT Tirupati at csrc_recruitment@iittp.ac.in

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

1. What motivates you towards pursuing this position? (max. 200 words)
2. Describe your research interests in the advertised area and provide a framework to accomplish the research tasks aligned with the project. Please use schematics, figures, flowchart, and relevant references, as appropriate. (max. 200 words).

The shortlisted candidates will be informed by email only. Selection will be based on the qualification, experience, and interview. The interview details will be shared in the call letter. The interview date will be notified to the shortlisted candidates by email. IIT Tirupati reserves the right to reject any or all the applications without assigning any reason thereof.

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