

No.: Advt/ IITT/CSRC/2021-22/13

Date: 12 Jan 2022

Project Ref. No. CIE/2122/003/MORT/KRIS

Applications are invited from eligible Indian nationals for the post of Research Scholar in a time-bound Government of India Ministry of Road Transport & Highways (MoRTH), New Delhi sponsored project undertaken in the Department of Mechanical Engineering.

Temporary Position	Research Scholar – 1
Essential Qualification	B.E. / B.Tech in Mechanical Engineering (or equivalent degree) with 80% marks and valid GATE score or B.Tech in Mechanical Engineering (or equivalent degree) from IIT with minimum 8 CGPA out of 10 or MS/ME/MTech in Mechanical Engineering (or equivalent degree) with minimum of 80% marks
Project Title	National facility for Accelerated Testing of Pavements and Vehicle Dynamics (NATPaVeD)
Sponsoring Agency	Ministry of Road Transport & Highways (MoRTH), New Delhi
Consolidated monthly Salary	Rs. 35,000
Principal Investigators	Dr. B. Krishna Prapoorna; Dr. Sriram Sundar
Department/Centre	Civil & Environmental Engineering; Mechanical Engineering
Tenure of Assignment	1 year, extendable to another 1 year subject to satisfactory performance
Essential skills/ knowledge	Dynamic analysis, vibrations, machine design, strength of materials, and finite element modeling.
Desired Experience	Exposure to relevant fields encompassing automotive noise, vibration and harshness (NVH), vehicle dynamics, vehicle-pavement interaction, and acoustics. Experience with vibration data-acquisition, signal processing, and statistics. <ul style="list-style-type: none"> • 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 project includes design, analysis and fabrication of mechanical subsystems of the facility. Conducting automotive NVH experiments (field and laboratory); collecting and post-processing of vibration and acoustic data. Further, development of analogous mathematical models (theoretical as well as numerical) to understand the underlying physics.
Age Limit	28 years (Relaxed for exceptional candidates)
Last date of Application	24 January 2022
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: IITT_RS_YourName)** on or before **24 January 2022** to Dr. Sriram Sundar, Assistant Professor, Department of Mechanical Engineering, IIT Tirupati at sriram@iittp.ac.in

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

1. What motivates you towards pursuing the Research Scholar position? (max. 200 words)
2. Describe your research interests in the advertised area. (max. 300 words)
3. Explain briefly the tentative research plan by using schematics, figures, flowchart, 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 online only**. The interview date will be notified to the shortlisted candidates by email. Candidates 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.

Dean, CSRC