

## Department of Civil Engineering Indian Institute of Technology Hyderabad Kandi, Sangareddy - 502284, Telangana, India

## Advertisement for Research Associate (RA) position in the Department of Civil Engineering, IIT Hyderabad

Date of advertisement: 22.01.2024 Last date for application: **05.02.2024** 

Applications are invited from eligible candidates with excellent academic background and proficiency in computational modelling and analysis for the position of Research Associate (RA) in the following research project in the Department of Civil Engineering, IIT Hyderabad.

## Details of the vacancy:

Name of the post	Research Associate – I
Number of vacancies	1
Monthly salary	Rs. 58,000/- + HRA@27%
Appointment period	12 months
Title of the research	Pavement-friendly Autonomous Vehicle Platooning through preset Inter-
project	Vehicular Wheel Wandering Offsets
Principal Investigator	Dr. M. Roshan Khan, Dept. of Civil Engineering, IIT Hyderabad
Funding agency	DST NM-ICPS Technology Innovation Hub on Autonomous Navigation
	(TiHAN), IIT Hyderabad
Key responsibilities	Computational modelling and analysis of road pavement sections
	Cyclic moving load simulations using user-defined subroutines
	Numerical simulation of autonomous vehicle dynamics on pavements
	Constitutive modelling of geomaterials using mathematical models
	Laboratory experiments in pavement engineering laboratory
	Design guidelines for reducing AV-accelerated pavement damages
	Documentation of results and publication of research findings
<b>Essential qualifications</b>	Ph.D. in Civil Engineering: Geotechnical / Transportation Engineering
	(or)
	M.Tech. in Civil Engineering: Geotechnical / Transportation Engineering
	with at least 3 years of relevant research experience
Essential skills	Expertise in numerical modelling and analysis
	Hands-on experience using FEA package Abaqus
Desirable skills	Hands-on experience conducting pavement laboratory experiments
	Strong mathematical, analytical and computational skills
	Track record of authoring high-quality research publications

Interested candidates are requested to send the following documents via email to roshan@ce.iith.ac.in with the subject of the email as "Application for RA position":

- 1. Latest CV
- 2. Scanned copies of degree certificates and grade sheets (Ph.D., M.Tech. and B.Tech.)
- 3. Statement of purpose
- 4. PDF copies of the top three research publications
- Shortlisted candidates will be contacted via. email and invited for an online interview.
- The selected candidate is expected to **join immediately**.
- Accommodation is not available on campus. The selected candidate is expected to make his/her own arrangements for the accommodation. HRA will be paid as per norms.

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