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

भारतीय सांस्कृतिक विज्ञान संस्था हैदराबाद
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

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 project	Pavement-friendly Autonomous Vehicle Platooning through preset Inter-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
Essential qualifications	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.