iHUB DivyaSampark

Divyasampark iHUB Roorkee for Devices Materials and Technology Foundation

**A section-8 Company established by Government of India (DST) and IIT Roorkee under National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS).**

**CIN No.-U73200UR2020NPL011644**

Ref. no. - 2022/TIH-IITR/455

Project Code: TIH/RP/15

Date: 29/08/2022

## ADVERTISEMENT TO FILL UP PROJECT POSITION

Applications are invited from Indian Nationals only for the project position as per the details given below for the Technology Development Project by the Principal Investigator **Prof. Indrajit Ghosh** under **Divyasampark iHUB Roorkee for Devices Materials and Technology Foundation** (A Section 8, Non- profit Company) at Indian Institute of Technology Roorkee.

1. **Title of Project:** Intelligent Predictive and Prescriptive Systems for Traffic and Pavement Condition Management in a Smart City
2. **Sponsoring Agency:** Divyasampark iHUB Roorkee for Devices Materials and Technology Foundation
3. **Project positions:** Project Associate
4. **No. of Vacancy:** 02 (Two)
5. **Location:** IIT Roorkee, Uttarakhand
6. **Qualifications:** B.Tech./ B.E. in CS/ ECE/ EE/ CE/ ME (or equivalent) + 2 years of experience **OR** M.Tech./ M.E. in CS/ ECE/ EE/ CE/ ME (or equivalent) ~ with/without GATE qualified
7. **Relevant Experience:** Candidates having working experience with Sensors, IoT Devices, Crowdsourced Data, Computer Vision, Deep Learning, etc. will be given preference.
8. **Job Description (In Brief):** The project aims to develop an on-vehicle IoT device that will work on the principle of a crowdsensing system and will create a database of pavement distresses, traffic signs, road markings, street lights, foot over bridge, traffic conflicts/near misses, etc. The proposed device will have both hardware and software components. Hardware components will consist of ultrasonic sensors, gyroscope sensors, cameras, GPS devices, etc. Algorithms will be embedded to capture images from the recorded videos using computer vision and deep learning techniques. Captured data will be transferred to the cloud and subsequently to the server using IoT-based computing devices and communication systems.
9. **Duration of the project:** 32 months (review every 4 months)

**Salary as per non-government organization market norms.**

Indian Institute of Technology Roorkee, Uttarakhand- 247667

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tih@iitr.ac.in

http://tih.iitr.ac.in/

- Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- Candidate should apply by submitting their resume along with self-attested copies of degrees, experience certificates on **hr.tih@iitr.ac.in**
- *****The subject of the e-mail should be "Application for the post of "Project Associate" (TIH/RP/15)".***
- Last Date to apply- **21 September 2022**
  *****Please note that application received after the last date will not be considered.***
- After shortlisting, candidates will be called for the **Interview.**
- Candidates, appearing for **Interview**, should bring the following documents:
  - Cover letter with detailed CV including chronological discipline of degrees/certificates obtained.
  - Experience including research, industrial field and others.
  - Please note that no **TA/DA is not admissible** for attending the interview.

The date and time of interview will be shared with the shortlisted candidates only.

Indrajit Ghosh

Name & Signature of PI
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Manish Anand.

Manish Anand
Chief Executive Officer
iHUB DivyaSampark