

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE  
(Department of Civil Engineering)

Dated: 17 October 2025

ADVERTISEMENT TO FILL UP PROJECT POSITION

Applications are invited from Indian nationals only for a project position as per the details given below for the research project under the Principal Investigator (Name: **Dr. Siddhartha Khare**), Department of Civil Engineering, Indian Institute of Technology Roorkee.

1. **Title of project:** AI based Geo-enabled crop insurance farm equipment renting solutions under Bhoomicam Pvt. Ltd.
2. **Sponsor of the project:** IIT Bhilai Technology and Innovation Foundation (IBITF)
3. **Project position(s) and number:** Postdoctoral Fellow: 01 (one position)
1. **Qualifications:** Ph.D. in Electronics and Communication / Instrumentation / Mechatronics / Geoinformatics/ Geospatial / Agricultural Engineering / Computer Science
- 2.
3. **Emoluments:** Rs. 80,000/- per month (consolidated)
4. **Duration:** 6<sup>th</sup> November 2025 to 30<sup>th</sup> March 2026
5. **Job description:** Ph.D. in Electronics and Communication / Instrumentation / Mechatronics / Geoinformatics/ Geospatial / Agricultural Engineering / Computer Science
  - a) Proven experience in hardware development for agricultural or environmental systems
    - IoT sensor design and calibration (soil moisture, temperature, NPK, pH, etc.)
    - Embedded system design (Arduino, Raspberry Pi, ESP32, STM series, etc.)
    - PCB design, circuit integration, and power management
    - UAV sensor payload integration and testing
  - b) Knowledge of AI/ML model interfacing, data acquisition systems, and wireless communication (LoRa, GSM, Wi-Fi, BLE) is desirable
  - c) Ability to work independently and collaboratively in multidisciplinary hardware–software teams
  - d) Minimum 3 first-author SCI-indexed journal publications
  - e) Ready to carry out extensive field work.
6. **Application Process**
  - a) Candidates before applying for the position shall ensure that they are eligible for the position they intend to apply.
  - b) Application is only acceptable through following Google form link:  
<https://forms.gle/5jC9JBt3exRnmBidA>
  - c) **Only shortlisted candidates will be called for an interview. The interview will be online.** Candidate may be asked to show the original degree(s)/certificate(s), and experience certificate(s) at the time of interview/joining for verification.

The last date of application is 31<sup>st</sup> October, 2025 by 5:00 PM IST. The interview date will be conveyed after shortlisting.

Approved

T. S.

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भा० प्रौ० सं० रुड़की/IIT Roorkee

18/10/2025

Dr. Siddhartha Khare

Assistant Professor

Name and signature  
of Principal Investigator