INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Name of Dept./Centre)

Dated: 02-11-2026

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal Investigator Name: **Prof. Uttam Kumar Roy,** Dept./Centre Architecture & Planning, Indian Institute of Technology, Roorkee**.**

1. **Title of project:** AMRUT Centre of Urban Planning for Capacity Building (ACUPCB).
2. **Sponsor of the project:** Ministry of Housing and Urban Affairs (AMRUT Division) Govt. of India, New Delhi.
3. **Project position(s) and number:**
4. **Qualifications:**
5. **Emoluments:**
6. **Duration:**
7. **Job description**:

Annexure-A

1. Candidates before appearing for the walk in interview (Hybrid mode) shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the interview (Hybrid mode) should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
   - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
   - Experience including research, industrial field and others.
   - Attested copies of degree/certificate and experience certificate.
3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of Walk in interview for verification.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

The walk in interview (Hybrid mode) will be held at Room No. 308. 2nd Floor, AMRUT Centre, Department of Architecture and Planning, IIT Roorkee on 17-11-2026 at 15:00 PM. **(03:00 PM)**

Dean
Sponsored Research & Industrial Consultancy
Indian Institute of Technology Roorkee
Roorkee-247667 (INDIA)

3/11/26

UTTAM K. ROY PhD
Deptt. of Architecture & Planning
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE-247667 Uttarakhand

Tel: 01332-28-4994 **Fax:** **Name and signature of Principal Investigator**

Email: office.acup@ar.iitr.ac.in

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

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Details of the Project Position

1. *Faculty Mentor: Prof. Uttam Kumar Roy*

- **Project position(s) and number:** Program Coordinator- 1 No.
- **Qualifications:** MBA with 9 years of relevant experience.
- **Emoluments:** (70,000-1,00,000) + HRA based on qualification and experience as per ACUP guidelines
- **Duration:** Till 19.03.2027 (or up to project duration)
- **Job description:**

  Responsible for overall activities of the Centre in a given domain (e.g., research, project, capacity building). Monitoring the progress of the respective projects with a proven record of the ability to execute works. Appointment process of staff. Making all reports for the Ministry. Partnership with various organizations. Organize capacity-building courses. Liaison with respective faculty. Funding and facilitation of events. Publication assistance. Organizing the centre's core events. Developing and maintaining systems for the smooth functioning of activities. Formulating project reports. Assisting the department/centre from time to time as required. Any other tasks assigned.

2. *Key Faculty Mentor: Prof. Arindam Biswas*

- **Project position(s) and number:** Research Associate - 1 No.
- **Sub Project:** Impact Assessment of Pradhan Mantry Awas Yojana
- **Qualifications:** Master of Urban and Regional Planning (MURP) or equivalent.
- **Emoluments:** (30,000-45,000) + HRA based on qualification and experience as per ACUP guidelines
- **Duration:** Till 19.03.2027 (or up to project duration)
- **Job description:**

  Conduct literature reviews, data collection, and data analysis. Undertake field surveys to support evidence-based planning, decision-making, and stakeholder consultation. Assist in capacity-building activities, training sessions, and knowledge dissemination. Support spatial analysis and sustainability data assessment using GIS, satellite imagery, and simulation tools. Assist in developing urban strategies related to the project. Undertake field coordination, data analysis, and collaboration with the research team to ensure the timely delivery of project milestones, including reports and other deliverables. Working knowledge of GIS software and data analytics software is desirable.

3. *Key Faculty Mentor: Prof. Dhivyabharathi*

- **Sub Project:** From Open Transit Data to Actionable Performance Metrics: A Visualization Toolkit for Transit Performance Evaluation
- **Project position(s) and number:**

  Research Associate - Transit Data Analytics and Operations Monitoring – 1 No.
  OR
  Project Associate – Data Analytics/Software Development – 1 No.

- **Qualifications:** Applicants should have a background in any of the following areas: Transportation Engineering/Planning, Computer Science, Information Technology, Data Science, or a closely related discipline.

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- **Candidates should meet one of the following profiles:**
- **Position 1: Research Associate** – Transit Data Analytics and Operations Monitoring – 1 No.

  M.Tech./M.E. in Transportation Engineering, Transportation Systems, Transport Planning, or a closely related field.
  Good proficiency in Python programming and data analytics.
  Familiarity with GTFS/GTFS-RT or other public transport data is desirable.
  Knowledge of GIS and spatial data analysis.
  Interest in transit operations and performance evaluation.

OR

- **Position 2: Project Associate** – Data Analytics/Software Development – 1 No.

  B.Tech./B.E. in Computer Science, Information Technology, Data Science, or a closely related field.
  Good programming skills in Python.
  Experience in frontend and backend development and development of data-driven web applications.
  Familiarity with databases, APIs, data processing, and dashboard development.
  Knowledge of GIS/spatial data and/or GTFS/GTFS-RT is desirable.

- **The candidate should demonstrate:**

  Strong analytical and problem-solving ability
  Good Python programming skills
  Ability to work with large and imperfect real-world datasets
  Willingness to learn GTFS/GTFS-RT and transit operations concepts
  Ability to work independently as well as with student researchers and interns
  Good documentation and communication skills

- **Emoluments:**

  Position 1 (Research Associate): 30,000/- to 75,000/- + HRA
  Position 2 (Project Associate): 25,000/- to 60,000/- + HRA

- **Duration:** 3 Months
- **Job description:**

Applications are invited for a project position to support the development of a data-driven transit operations monitoring and visualization platform using General Transit Feed Specification (GTFS) and GTFS-Realtime (GTFS-RT) data.

The selected candidate will work closely with the project investigator and research team on developing data processing workflows, transit performance indicators, automated data pipelines, and an interactive operations monitoring dashboard. The position will also involve supporting stakeholder consultations with transit agencies sand practitioners to understand operational requirements and identify relevant performance metrics for visualization. The position requires someone who is comfortable working across transportation and software/data domains. The candidate should be able to understand a transportation problem, translate it into a data-processing or analytical workflow, and contribute to its implementation in a usable software interface.

- The selected candidate will be responsible for:

  Supporting the development of a system for continuous archival and management of transit data.
  Developing automated Python-based data processing and analytics pipelines.
  Supporting the development of an interactive transit operations monitoring dashboard.
  Developing maps and spatial visualizations of transit routes, stops, vehicle movements, and performance indicators.
  Supporting stakeholder consultations with transit agencies, transport professionals, and other relevant users to identify operational information requirements and dashboard metrics.
  Contributing to technical reports, research papers, presentations, and project documentation.

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4. *Key Faculty Mentor: Prof. Tushar Pramod Choudhari*

- **Project position(s) and number:** Project Assistant (Technical)/Project Associate – 1 No.
- **Sub Project:** Context-sensitive Traffic Management Strategies for Safe Pedestrian Movement in School Zone, Roorkee.
- **Qualifications:** UG degree (in Civil Engineering background or Equivalent) OR PG degree (specialization in Transportation Systems Engineering or Equivalent)
- **Emoluments:** (26,000-57,000/-) / (30,000-65,000) + HRA based on qualification and experience as per ACUP guidelines
- **Duration:** 3 months (extendable based on performance)
- **Job description:**
  Conduct surveys and traffic data collection at school zones.
  Analysis of data using advanced statistical and AI tools.
  Develop and evaluate multiple traffic management scenarios using VISSIM.
  Conduct spatial mapping and analysis using GIS.
  Documentation of the research outputs and deliverables.

- **Preferred Skills:**
  Experience in field data collection and corresponding analysis.
  Understanding of IRC guidelines relevant to school zone and road safety.
  Knowledge of GIS and spatial mapping.
  Basic knowledge of programming software (preferably R/Python).
  Prior experience with PTV VISSIM software for traffic simulation is preferable.
  Good communication skills in English and Hindi, particularly for data collection.

5. *Key Faculty Mentor: Prof. E. Rajasekar & Prof. Hemant Kumar Suman*

- **Project position(s) and number:** Project Assistant (Technical Field Assistant)– 1 No.
- **Sub Project:** Urban Mobility and Infrastructure Planning in Conjunction with Climate Risk
- **Qualifications:** Graduation with upto 2 Years relevant experience.
- **Emoluments:** 26000/- based on qualification and experience as per ACUP guidelines
- **Duration:** Till 19.03.2027 (extendable based on performance)

- **Job description:** The role requires field coordination and collaboration with the research team: The Field Assistant will collect field data, operate survey equipment, enter field data accurately into spreadsheets, and coordinate with local authorities for smooth conduct of fieldwork. Conduct surveys and data collection. Experience in field data collection and corresponding analysis. Good communication skills in English and Hindi, particularly for data collection.

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