



**Advertisement No.:** GISCELL/CSTUP/MY/01/2023/Project Staff

**Date:** 09/11/2023

**Advertisement for the Post of Junior Research Assistant (JRA) (on-contract)**

Applications are invited from Indian nationals for the post of **Junior Research Assistant (JRA) (on-contract)** in research project entitled “**Multi-sensor-multi-platform LiDAR systems integrated with a camera and artificial intelligence for sustainable forest management and urban tree inventories**” funded by Council of Science & Technology (CST), U. P., Sanction letter No. CST/D-1509 dated 26/10/2023. The duly completed application on prescribed format along with copies of supporting documents must reach to: **Research & Consultancy Cell, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004** on or before **30/11/2023**. The envelope should be superscripted as “**Application for the post of Junior Research Assistant (JRA) (on-contract)** in the Research Project “**Multi-sensor-multi-platform LiDAR systems integrated with a camera and artificial intelligence for sustainable forest management and urban tree inventories**”. A soft copy of the application should also be sent to Dr. Manohar Yadav, Assistant Professor Grade-I, Geographic Information System (GIS) Cell & Principal Investigator through email: [ssmyadav@mnnit.ac.in](mailto:ssmyadav@mnnit.ac.in).

**Description and Objectives of the Project:** This project addresses the focus area of feature extraction and data analysis in the area of geospatial data processing and natural resource management. Specifically, the project aims to fulfill the growing need for machine learning (ML)/Deep learning (DL) algorithms and methods for processing the LiDAR and image data in the broad area of natural resource management for forestry and urban trees inventories, which include tree detection, tree phenotyping and above-ground biomass estimation. This is an emerging and active area of research that is of interest to various government and non-government agencies involved in natural resource management.

The position is purely temporary and will be governed by the Funding agency rules and service conditions of Research & Consultancy Cell, MNNIT Allahabad.

**Number of Position:** 01 (one)

**Essential Qualifications:**

1. M.E. / M. Tech. in Geoinformatics/Geomatics/GIS and Remote Sensing/Computer Science Engineering, or equivalent with first class in graduate and post graduate degrees. GATE/NET qualification is preferred.
2. The applicant must be resident of Uttar Pradesh.

**Desirable Qualifications:** Working knowledge on LiDAR point cloud data processing using deep learning/Machine learning.

**Fellowship:** **Rs. 25,000/-** per month (Consolidated) for first two years [as Junior Research Assistant (JRA)] and **Rs. 28,000/-** per month (Consolidated) for the last third year [as Senior Research Assistant (SRA)]

**Other Benefits:** Candidate selected for the JRA may register for the Ph.D. program of the Institute, if he/she meets the eligibility criteria of the Institute for PhD admission. The candidate may refer to the MNNIT website for detailed eligibility criteria. Facility of yearly leave carryover leave, medical benefits etc. may be available as per applicable rules of the project staff. The candidate selected as JRA will get an opportunity to work with the Co-Principal Investigator from the project collaborator: IIT Kanpur.

**Age Limit** : 28 years as on the date - 01/04/2023.

**Tenure of Appointment:** Appointment will be made on contract basis for a period of one year initially, which may be extended depending on the performance evaluation on yearly basis till the end of project. The tenure of the project is three years which starts from the date of joining of Junior Research Assistant (JRA).

**Note:**

1. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
2. The Institute reserves the right to accept application at any time, and consider candidates of exceptional credentials without applications. The selection committee has the discretion to restrict the number of candidates to be called for interview to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement or qualification and experience may also be relaxed at any point of time for exceptional candidates.
3. Mere possessing the prescribed qualification does not ensure that the candidate would be called for Interview. The Candidates will be shortlisted on the basis of merit and need of the project.
4. Only shortlisted Candidates will be informed by e-mail about the interview dates. So, they must provide their valid Email IDs in their applications.
5. Shortlisted candidates have to present themselves for the interview on the interview date with updated CV and original and attested photocopies of mark sheets/ certificates in support of their academic qualifications.
6. Applicants in employment (private, government or any other organization) are required to submit a “No Objection Certificate” from the employer at the time of interview.
7. No TA/DA will be paid for appearing in the interview (if conducted in physical mode)
8. The candidate is expected to join immediately, if selected.

**Name of Principal Investigator** : Dr. Manohar Yadav  
**Designation** : Assistant Professor Grade-I  
**Department** : Geographic Information System (GIS) Cell



भौगोलिक सूचना प्रणाली प्रकोष्ठ  
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज – 211004 (उ० प्र०), भारत  
**Geographic Information System (GIS) Cell**  
Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004 (U.P.) India

**For office use only**  
Application No.....

**APPLICATION FORM**

**Advt. No.**.....

**Dated**.....

<b>Research Project Entitled:</b> Multi-sensor-multi-platform LiDAR systems integrated with a camera and artificial intelligence for sustainable forest management and urban tree inventories						<b>Self Attested recent passport size Photograph</b>
<b>Sanction letter &amp; Date:</b> No. CST/D-1509 dated 26/10/2023						
<b>Funding Agency:</b> Council of Science and Technology (CST), U.P						
<b>Name of P.I.:</b> Dr. Manohar Yadav						
<b>Name of position:</b> Junior Research Assistant (JRA) (on contract)						
<b>Department/Section:</b> Geographic Information System (GIS) Cell						
1.	Name of the Candidate (In Capital letter)					
2.	Sex (Male/Female)					
3.	Marital Status (Married/Unmarried)					
4.	Date of Birth					
5.	Age as on last date of application	_____ Years _____ Months _____ Days				
6.	Father's/Husband's Name					
7.	Present Contact Address					
8.	Permanent Address					
9.	Mobile No					
10.	E-mail					
11.	Nationality					
12.	Category	Gen/SC/ST/OBC/PH _____ (enclosed attested copy of certificate)				
13.	NET/GATE	Valid up to _____ Score/Rank _____				
14.	Educational Qualification					
	<b>Qualification</b>	<b>Subject/Discipline</b>	<b>Board/Institute/Univ.</b>	<b>Year</b>	<b>% of marks</b>	<b>Div.</b>
	10th					
	12th					
	Diploma (if any)					
	B.E./B. Tech.					
	M.E./M.Tech.					
	Other					

**Title of M.E./M.Tech. Thesis:** .....

15	Details of Experience in chronological order. Enclose a separate sheet duly authenticated under your signature if necessary						
Organization	Position	Salary/ Emoluments	Nature of Duties	Nature of appointment	Period of Experience		
					Years	Months	Days
16	Research Publications (Attach the list) ( if any)			<b>Numbers</b>			
	i) SCI Journal Publications						
	i) Non SCI Journal Publications						
	iii) International/ Conference/Seminar / Symposium Proceeding						
	iv) National Conference/Seminar /Symposium Proceeding						
17	Any other information						
18	Indicated whether you propose to register for higher degree* at MNNIT Allahabad. (Name of higher degree is PhD)			<b>Yes / No</b>			

\*Those candidates who wish to be admitted as student for higher degree must fulfill at least the minimum eligibility for the respective admission as available on the Institute website.

### **DECLARATION**

I hereby declare that all the statements made in this application are true and complete and nothing has been concealed/ distorted. I am aware that, if at any time I am found to have concealed/distorted any material information, my engagement is liable to be summarily terminated without notice.

Place:  
Date:

Signature of the Applicant

**Enclosure(s):** Self attested copies of the following documents.

1. Proof of Date of Birth
2. Mark sheets & certificates of all the examination passed
3. Category Certificate, if applicable
4. **Residential Certificate: Uttar Pradesh Domicile Certificate**
5. NET/GATE score card, if passed
6. Summary of M.E/M.Tech Thesis (1or 2 pages), if any
7. Experience certificate, if any
8. CV