यांत्रिकी अभियंत्रण विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान
इलाहाबाद
प्रयागराज -211004
Mechanical Engineering Department
Motilal Nehru National Institute of Technology
Allahabad
Prayagraj - 211004 (India)

Advertisement No. 1000/MED/F-80/2026 Date: 24.09.2026

Advertisement for the Post of JRA/SRA/RA (On Contract)
Walk-in Interview

Applications are invited from **Indian nationals who are residents of Uttar Pradesh** for the post of **JRA/SRA/RA (on contract)** in the research project entitled: **"IoT-Enabled Smart Atmospheric Water and Carbon Capture System Using Ultrasound-Regenerated Hybrid Sorbents for Urban Sustainability"** sanctioned by the **Council of Science & Technology, Uttar Pradesh (CSTUP)** vide Sanction Letter No. **CST/E&T/D-993 dated 05/08/2026** (**Project ID: 8483**).

The duly completed application in the prescribed format, along with scanned copies of supporting documents, must be submitted through email to **sumit.tiwari@mnnit.ac.in (Dr. Sumit Tiwari) and nirmalroy@mnnit.ac.in (Dr. Nirmal Ch Roy)**, with the subject line **"Application for JRA/SRA/RA (on Contract) – Project ID 8483"**, on or before **19/09/2026 and 5 PM**.

The position is **purely temporary and co-terminus with the project** and will be governed by the project guidelines of the **Council of Science & Technology, Uttar Pradesh (CSTUP)** and the rules and regulations of **Motilal Nehru National Institute of Technology Allahabad, Prayagraj**.

Description and Objectives of the Project

The project aims to develop an **IoT-enabled smart system for atmospheric water harvesting and carbon capture using ultrasound-regenerated hybrid sorbents**, with an emphasis on sustainable water generation and carbon capture for urban applications.

The proposed research involves the development and experimental investigation of **hybrid sorbent-based systems**, ultrasound-assisted regeneration, atmospheric moisture capture, carbon capture, system integration, and performance evaluation. The project will focus on developing an energy-efficient and technologically advanced system suitable for sustainable urban applications.

Applications are invited from eligible candidates for the position of **JRA/SRA/RA (on contract)** to carry out the research activities associated with the project.

Number of Position	**01 (One)**
Essential Qualifications	B.E./B.Tech./M.E./M.Tech. in Mechanical Engineering, Chemical Engineering, Electrical and Electronics Engineering, Energy Engineering, or other relevant

	specializations. The candidate must be a **resident of Uttar Pradesh**. Candidates having relevant experience in areas such as **heat and mass transfer, adsorption, atmospheric water harvesting, carbon capture, thermal systems, experimental research, instrumentation, IoT-based systems, or related areas** will be preferred. (Detailed information given in **ANNEXURE–I**)
Fellowship	**₹28,000/- per month (Consolidated)**
Other Benefits	Accommodation may be available subject to availability and Institute norms. The selected candidate may be permitted to register for a **Ph.D. programme at MNNIT Allahabad**, subject to fulfilling the eligibility requirements and applicable Institute rules. Leave and other benefits may be available as per the applicable rules and guidelines for project staff.
Age Limit	**28, 32 and 35 years** (as per JRA/SRA/RA) as on **01 April 2026**. The upper age limit is relaxable by **5 years** for candidates belonging to **SC/ST/OBC/Persons with Disabilities (PwD) and women candidates**, as per applicable rules. (Detailed information given in **ANNEXURE–I**)
Tenure of Appointment	The appointment will initially be made on a **contract basis for a period of one year**, which may be extended further, subject to satisfactory performance and availability of funds, until completion of the project.
Duration of the Project	**03 Years**

Note

1. The applicant will be responsible for the authenticity of the information, documents and photographs submitted.
2. The Institute reserves the right to accept applications at any time and to consider candidates with exceptional credentials, as per applicable Institute norms.
3. Qualification and experience may be relaxed by the competent authority in exceptional cases. Mere possession of the prescribed qualification does not ensure that

the candidate will be called for the interview. Candidates will be shortlisted on the basis of merit, qualifications, experience and the requirements of the project.

4. Shortlisted candidates will be informed by **e-mail** regarding the date and mode of interview. Candidates must provide a valid e-mail ID and contact number in their application.
5. Shortlisted candidates are required to appear for the interview with an updated **CV, publications (if any), original certificates/mark sheets and one set of self-attested photocopies** of documents supporting their educational qualifications and experience.
6. Candidates who are employed in any **private, government or other organization** must produce a **No Objection Certificate (NOC)** from their employer at the time of interview.
7. **No TA/DA will be paid** for appearing in the interview.
8. The appointment is purely temporary and co-terminus with the project and does not confer any right to permanent absorption in the Institute.

Name of Principal Investigator

Dr. Sumit Tiwari,
Designation- Assistant Professor
Department- Department of Mechanical Engineering
Institute Address- Motilal Nehru National Institute of Technology Allahabad, Prayagraj – 211004, Uttar Pradesh, India

Name of Co- Principal Investigator

Dr. Nirmal Ch Roy,
Designation- Assistant Professor
Department- Department of Electronics and Communication Engineering
Institute Address- Motilal Nehru National Institute of Technology Allahabad, Prayagraj – 211004, Uttar Pradesh, India

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ANNEXURE–I

Eligibility Criteria for Selection of J.R.A./S.R.A./R.A.

1. Only Indian citizens who are **resident of Uttar Pradesh** are eligible for Research Assistantships/Associateships in the research projects funded by **CST UP**.

JUNIOR RESEARCH ASSISTANT

i. **Junior Research Assistantship (JRF)** may be awarded to holders of **M.Sc. (Ag.), M.Sc., M. Pharm., M.V.Sc., Bachelor of Engineering/Technology (B.E./B.Tech.) or equivalent degree.**

ii. **High academic attainment with 1st class in graduate and post graduate examination.**

iii. The upper age limit for a Junior Research Assistant shall be **28 years as on 1st April of the year in which the application is made.**

SENIOR RESEARCH ASSISTANT

i. **Senior Research Assistantship (SRA)** may be awarded to holders of **M.Sc., M.Sc. (Ag.), M. Pharm., M.V.Sc. or equivalent degree with high academic attainment and at least two years research experience after M.Sc. etc., as evident from the published papers in reputed Journals, or 1st class M.E./M.Tech. or equivalent degree or 1st class M.B.B.S. (with completed internship in medicine).**

ii. The upper age limit for Senior Research Assistant shall be **32 years as on 1st April of the year in which the application is made.**

RESEARCH ASSOCIATE

i. Persons possessing minimum **Ph.D. or equivalent degree or M.Tech., M.E., M.D. with three years' research, design and development experience** will be eligible for consideration for appointment as Research Associate.

ii. The upper age limit for the appointment of Research Associate is normally **35 years.**

NOTE

i. Qualifications and age of Research Assistants/Associates appointed in the scheme should normally conform to the criteria specified by the **CSTUP**. However, the **Selection Committee may marginally relax these criteria in most deserving cases** where the applicants are otherwise found suitable for specific research programme for special qualifications/research experience.

ii. For appointing Research Assistants/Associates for **short duration not exceeding 6 months**, the usual procedure of selection as mentioned above may be waived off and the fellows be appointed by the **Investigator Incharge of the scheme in consultation with the Head of the Department under intimation to CSTUP.**

iii. Research guidelines can be accessed at:

www.cst.up.gov.in

Path:

www.cst.up.gov.in → Scientific Programme → Research & Development → How to Apply → R&D Projects Guideline

अधिष्ठाता (शोध एवं परामर्श) कार्यालय
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान
इलाहाबाद – 211004 (उ.प्र.), भारत
OFFICE OF THE DEAN (RESEARCH AND CONSULTANCY)
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY
Allahabad – 211 004 (India)
Website: http://www.mnnit.ac.in

For office use only

Application No……

APPLICATION FORM

Advt.No. 1000/MED/F-80/2026
Dated- 24.08.2026

Research Project Entitled- "IoT-Enabled Smart Atmospheric Water and Carbon Capture System Using Ultrasound-Regenerated Hybrid Sorbents for Urban Sustainability"
Sanction letter & Date: CST/E&T/D-993 dated 05/08/2026
Funding Agency: CST, UP
Name of P.I.: Dr. Sumit Tiwari
Name of Co-PI: Dr. Nirmal Ch. Roy
Name of position: JRA/SRA/RA
Department/Section: Mechanical Engineering Department

Affix Passport Size Photograph here

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) and women
13	NET/GATE	Valid up to_____Score/Rank_____ __
14	Educational Qualification	

Qualification	Subject/Discipline	Board/Institute/Univ.	Year	% of	Div.

				marks	
10th or equivalent					
12th or equivalent					
Diploma, if any					
BA/B.Sc./B.E./B.Tech					
M.A./M.Sc.					
M.Phil./M.E./M.Tech*					
Ph.D*					

***Title of 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 Year**	**Month**	**Days**
16	Research Publications (Attach list): -				Numbers			
SCI Journals								
Non-SCI Journals								
International Conference/Seminar/ Symposium Proceeding								
National Conference/Seminar/Symposium Proceeding								
17	Any other information							
18	Indicated whether you propose to register for higher degree* at MNNIT, Allahabad. Yes/No (Name of degree)							

**Note:- ***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: Signature of the Applicant
Date:

Enclosure- Self attested copy of documents

1. Proof of Date of Birth
2. Mark sheets & certificates of all the examination passed
3. Category Certificate, if applicable
4. NET/GATE score card, if passed
5. Experience certificate, if any