



राष्ट्रीय प्रौद्योगिकी संस्थान नागालैंड
NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND
(An Institute of National Importance under Ministry of Education, Govt. of India)
Chumukedima
Nagaland - 797 103

Advt. No: NIT-N/Advt./ME/RA/001/2026

Dated 18.09.2026

ADVERTISEMENT

Applications are invited from Indian nationals to work as a **Research Assistant** in a Research Project funded by the **TEXMIN CPS Centre of Excellence, NIT Nagaland, and Govt. of India**

Title of Research Project: *AI-Assisted Self-Regulating Bio-Inspired Thermo-Fluidic Fogging and Waste Heat Driven Atmospheric Water Harvesting System for Zero-Water Green Mining Operations*

Duration: One (1) Year and based on the performance, it can be extended.

Brief Description of the Project: The main Objectives are: -

1. Develop a CFD-based thermo-fluid model to analyze and optimize heat transfer, airflow, and multiphase flow characteristics within twisted duct configurations.
2. Develop bio-inspired condensation surfaces with enhanced droplet nucleation and water collection efficiency for atmospheric moisture harvesting.
3. Develop an AI-based predictive control system for real-time monitoring and autonomous optimization of cooling, condensation, and fogging performance under varying environmental conditions.

Number of Position: One (1)

Essential Educational Qualification: **B.E. / B. Tech, and M.E. / M. Tech** or equivalent degree in Mechanical /Production and Computer Science. Candidate must have obtained at least 65% marks or 6.5 CGPA out of 10.

Desirable: Working experience in Fluid Mechanics, Heat Transfer, Manufacturing, and AI/ML.

Consolidated Salary: - Rs 13,200/ month

How to apply?

Eligible candidates should send the full detail of their qualification along with detailed bio data and photo copied certificates/marksheets (10th onward) to below address/email on or before **28th September, 2026**.

Dr. Shambhu Kumar Mahato
Assistant Professor,
Department of Mechanical Engineering, NIT Nagaland,
Chumukedima, Dimapur, Nagaland-797103.
Email:-shambhu@nitnagaland.ac.in



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Position Applied for:

Project Title:

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Please use BLOCK LETTERS:

1. Full Name: Sex (M/F):

2. Father's/Husband's Name:.....Father's/ Husband's Nationality.....

3. Present Address:

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4. Permanent Address.....

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5. a) Email ID:

b) Telephone/Mobile No.:

6. a) Date of Birth..... (b) Birth Place:

(c) State of Domicile.....

7. Citizenship:

8.* Do you belong to :(a) Scheduled Caste-Yes/No (b) Scheduled Tribe -Yes/No

(c) OBC -Yes/No

9. Academic and Professional Qualifications (From High School onwards): Attach self- attested certificate

Degree/ Diploma	Subject	Percentage of Marks or Grade	Name of Univ./ Institution	Duration of Course	Month & year of passing

10. **Complete information of qualifying examination for masters:**

(NET/GATE/ Equivalent Exam, score, year of passing and validity, discipline, marks, all India Rank etc, if any)

11. Publications and Patents: **(Please attach list of publications in SCI journals with full references and corresponding with those in the list) (If available)**

(a) No. of Papers (i) Published.....(ii) Accepted.....

(b) No. of Books published.....

(c) No. of patents: (i) Filed: (ii) Granted:

12. Prizes, Honours, Awards, Distinctions, if any:

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13. Experience held: (Please attached copy of experience certificate)

Position	Name of Organization/Agency	Dates		Pay/Wages	Nature of duties
		From	To		

14. Please give the names, designations, address and email id of the referees:

(i).....

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(ii).....

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15. Declaration

I have read the terms and conditions of the Institute. I accept and agree to abide by these if the Fellowship is offered to me. I certify that to the best of my knowledge and belief the particulars given in the application are correct. I understand that the decision taken on my application by NIT Nagaland authority will be final. If false and suppression of factual information in the application form comes to the notice of NIT Nagaland authority at any time during the tenure the fellowship would be liable to be terminated.

Place.....

Signature of the candidate

Date.....