



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