

# 5G Lab @ NEHU

## Explore, Build, and Lead with 5G Technology

Welcome to the **5G Lab at North-Eastern Hill University (NEHU)** — a state-of-the-art facility supported by the **North Eastern Council, Ministry of DoNER**. This initiative is designed exclusively for the talented and aspiring students of Northeast India. Whether you're passionate about electronics, AI, drones, coding, or sustainable development — this lab gives you the tools, mentorship, and platform to bring your ideas to life using the power of 5G.



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### What Can You Do in a 5G Lab?

The 5G Lab at NEHU is **not just a lab — it's a launchpad** for your ideas and your future. Here's what you can do:

- **Work on live 5G networks** with industry-grade infrastructure
- **Build real-world solutions** using IoT kits, drones, AR/VR, and edge computing
- **Join hands-on certification programs** to sharpen your technical skills
- **Lead or join research projects** solving real challenges in Northeast India

- **Get mentored** by industry experts and researchers from across India and beyond
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### **Cutting-Edge Equipment You'll Use**

Our lab is equipped with the latest technology to help you prototype, test, and scale your ideas:

- **5G MEC & Application Servers:** Run real-time analytics, video, and automation.
  - **Mini 5G Drones:** Code and control drones for surveying, delivery, and emergency response.
  - **IoT & Sensor Kits:** Develop smart solutions for agriculture, health, and infrastructure.
  - **AR/VR Headsets:** Build immersive education, tourism, and training applications.
  - **Network Testing Tools:** Monitor and understand 5G network performance like a pro.
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### **Skills You Will Gain**

By working in the 5G Lab at NEHU, you'll build **industry-ready skills** that are in high demand:

- 5G Architecture & Network Design (RAN, Core, MEC)
  - Edge Computing and Low-Latency App Development
  - IoT System Design and Integration
  - Drone Programming and Flight Automation
  - AR/VR Development for Training and Simulation
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### **🏠 For the Students of the Northeast, By the Northeast**

This lab is a **dedicated space for students of the Northeast region** — built to empower tribal, rural, and women students in particular to lead in technology and innovation.

- Tackle local challenges in **healthcare, agriculture, disaster management, and environment**

- Make NEHU a **hub of technological excellence**
  - Collaborate with **other institutions, startups, and international researchers**
  - Develop solutions **right from your hometown**, with global impact
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## ✦ Your Future Begins Here

At the **5G Lab @ NEHU**, you don't just learn — you **build, innovate, and lead**. Whether your dream is to become a **tech entrepreneur, research scientist, or social innovator**, this is your starting point.

Be a part of the **first generation of 5G innovators** from Northeast India.

## ✉ For More Information

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