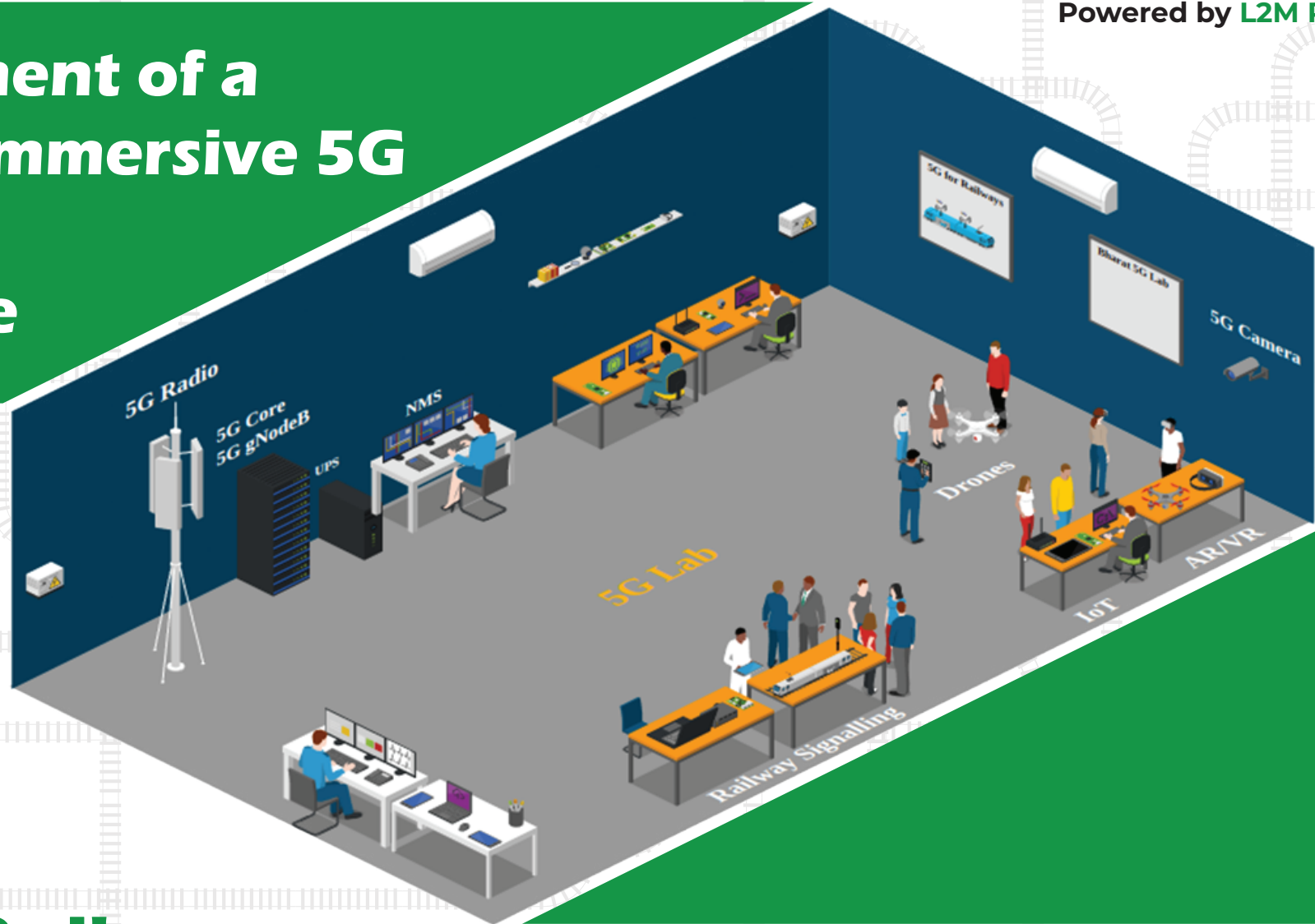


# Establishment of a 5G Lab & Immersive 5G Training Experience



# Why Establish 5G Lab in Colleges?



## Hands-On Learning

It provides students with hands-on experience in working with 5G technology, understanding of theoretical concepts and prepares them for careers in telecommunications and related fields.

## 5G Use Case

Students can utilize the 5G lab to develop and test new 5G use cases to gain practical experience in creating real-world innovations.

## Innovation Hub

By establishing a 5G lab, colleges can position themselves as innovation hubs within their communities, attracting students, faculty, and industry partners who are interested in pushing the boundaries of telecommunications technology.

## Industry Relevance

As 5G technology becomes increasingly prevalent in industry, having access to a 5G lab ensures that college programs remain relevant and aligned with industry needs, thereby enhancing graduates' employability.

## Research Opportunities

A 5G lab fosters research opportunities for faculty and students alike, allowing them to explore new applications, protocols, and technologies within the realm of 5G networks.

# 5G Lab Use Cases

## IoT (Internet of Things)



Experience the future of campus innovation with IoT and sensor applications powered by 5G connectivity.

## Video Communication



Explore seamless connectivity for virtual lectures with crystal-clear audio and high-definition video, ensuring effective communication.

## Drones



Embark on a journey of exploration and innovation with drones powered by 5G connectivity.

## AR/VR



Utilize high-speed, low-latency 5G connectivity to deliver seamless AR/VR experiences with minimal lag and optimal performance.

## Video Surveillance



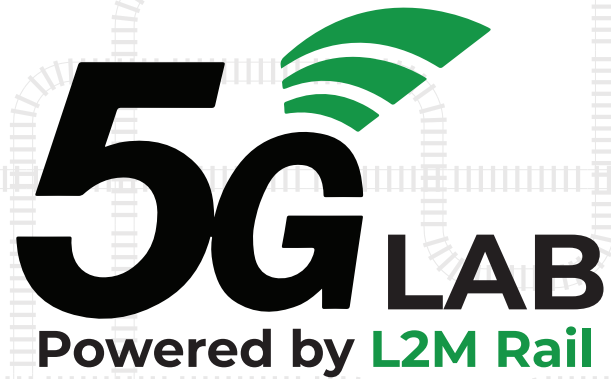
Employ edge computing and machine learning algorithms to analyze video data locally, minimizing latency and enhancing security response times.

## Robotics



Harness the low latency and high bandwidth of 5G networks to enable real-time communication between robots and control systems.





# **"Empowering Student Exploration of 5G Technology"**



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