**Job Title:** O-RAN DU/RU Integration Engineer

**Job Summary:**

We are looking for a skilled and motivated engineer to integrate, and optimize Distributed Unit (DU) and Radio Unit (RU) components within an Open RAN (O-RAN) architecture. The role involves working on Layer 1/Layer 2 stack, fronthaul interfaces, and real-time processing systems to enable high-performance 5G networks.

**Key Responsibilities:**

- Integrate and validation of software/firmware for DU and RU components in O-RAN architecture
- Work on O-RAN fronthaul (Open Fronthaul / eCPRI) interface integration between DU and RU
- Debug performance issues related to latency, throughput, synchronization, and RF behaviour
- Work on timing and synchronization protocols such as **PTP (IEEE 1588v2)** and SyncE
- Participate in field trials and performance tuning of DU/RU systems

**Required Skills:**

- Strong understanding **5G NR protocols**
- Hands-on experience with **DU/RU, vRAN, or O-RAN systems**
- Experience with **fronthaul protocols** such as eCPRI, CPRI, ORAN Open Fronthaul
- Proficiency in **C/C++ programming** (critical requirement)
- Familiarity with **Linux systems**, multithreading, and real-time systems
- Understanding of **RF fundamentals** and radio signal processing
- Experience with debugging tools (Wireshark, protocol analyzers, logs, traces)

**Educational Qualifications:**

- Bachelor's or Master's or PhD degree in **Electronics, Telecommunications, Computer Engineering**, or related field. FRESHERS ARE NOT ALLOWED

    - ❖ Interested candidates may email their resumes to comet@iiitb.ac.in and mention the role for which you are applying clearly in the subject of the email.