

## **Job Title: Senior Engineering Manager – O-RAN DU Software & Integration**

### **Job Summary:**

We are looking for a seasoned engineering leader to drive the development of an in-house Distributed Unit (DU) software stack and its end-to-end integration with a 32TR massive MIMO Radio Unit (RU), within an Open RAN (O-RAN) architecture. The role combines deep technical ownership with team leadership, coordinating across fronthaul, L1/L2 stack, timing, and RF specialisation tracks to deliver a fully functional and validated DU-RU system.

### **Key Responsibilities:**

- Own the end-to-end technical architecture and execution of the in-house DU software stack, from L1/L2 design through to Open Fronthaul integration with the 32TR RU
- Lead and mentor a team of Senior Engineers and Engineers across fronthaul, L1/L2 stack, timing/synchronisation, and RF performance tracks
- Drive key technical decisions on DU architecture, functional splits, and interface design in alignment with O-RAN Alliance and 3GPP specifications
- Coordinate integration milestones across the four specialisation tracks, ensuring cross-track dependencies are identified early and resolved without slipping timelines
- Interface with the WP-A radio team to align DU software development with RU hardware readiness and field deployment schedules
- Oversee system-level validation, field trials, and performance tuning of the DU-RU system under live traffic conditions
- Contribute to technical documentation, standards alignment reports, and project reviews
- Represent the work package in external engagements including vendor interactions, standards bodies, and project-level reviews

### **Required Skills:**

- Strong and broad understanding of 5G NR protocols across L1 and L2, O-RAN functional splits, and Open Fronthaul architecture
- Prior hands-on experience with DU or RU development, vRAN platforms, or O-RAN system integration (critical requirement)
- Experience leading multi-track engineering teams in a fast-paced R&D or product development environment
- Deep familiarity with eCPRI/CPRI fronthaul protocols and O-RAN Open Fronthaul specifications
- Working knowledge of timing and synchronisation protocols including PTP (IEEE 1588v2) and SyncE
- Understanding of RF fundamentals and radio signal processing sufficient to engage meaningfully with RF and system performance issues
- Proficiency in C/C++ and familiarity with Linux-based real-time systems
- Strong communication and coordination skills, with the ability to drive alignment across technical teams and external stakeholders

### **Experience:**

- A minimum of 8-12 years of relevant industry experience is expected, with at least 3 years in a technical leadership role.

### **Educational Qualifications:**

- Bachelor's or Master's or PhD degree in Electronics, Telecommunications, Computer Engineering, or a related field. FRESHERS ARE NOT ALLOWED.
- Interested candidates may email their resumes to [comet@iiitb.ac.in](mailto:comet@iiitb.ac.in) and mention the role for which you are applying clearly in the subject of the email.