Job Title: Wireless Communication Systems Engineer (R&D)

We are seeking engineers with expertise in wireless communication system-level design and integration. The role involves research, design, simulation, and implementation of Integrated communication and sensing (ISAC) systems, leveraging both software and hardware platforms. The candidates should have a strong wireless communication background and hands-on experience in MATLAB/Simulink, C/C++ programming, hardware-software co-design and software defined radios (SDR).

Key Responsibilities

- Design, model, and simulate ISAC systems algorithms using MATLAB/Simulink.
- Develop, optimize, and implement the algorithms in C/C++ for embedded and real-time systems.
- Perform hardware and software integration for ISAC prototypes and testbeds.
- Conduct performance analysis, troubleshooting, and validation of ISAC systems.
- Collaborate with cross-functional teams on product development.
- Document technical reports, findings, and design specifications.

Required Skills:

- Strong fundamentals in digital and wireless communication and radar systems, including beamforming, modulation, coding, synchronization, channel estimation, etc.
- Proficiency in MATLAB/Simulink for system modeling, simulation, and algorithm validation
- Solid programming skills for signal processing algorithms implementation in C/C++ for embedded systems design with real-time implementation constraints.
- Hands-on experience with Software Defined Radio (SDR) platforms.
- Experience in hardware–software co-design and system integration.
- Familiarity with Linux-based development environments and debugging tools.

Educational Qualifications:

- M.Tech/M.S. or Ph.D. in Electronics & Communication Engineering, Electrical Engineering or Computer Engineering.

❖ 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.