



The Position: IC Design Engineer (CDR/PLL/VCO Circuits)

Summary:

Our client, a designer and manufacturer of affordable high-performance components for high speed communications, offering the best in millimeter-wave engineering and high speed digital design, is currently seeking an **IC Design Engineer** at their corporate headquarters in Wine Country, Santa Rosa, Ca. This position will be responsible for specification, detailed design, circuit simulation, layout, verification, and testing of high-speed (10-40 GHz/Gbps) integrated CDRs, PLLs, VCOs, and phase detectors for telecom applications. The ideal candidate will be experienced with broadband NRZ GHz/Gbps integrated circuit design techniques in both time and frequency domain applications.

As a basis for consideration, all interested applicants must possess the following qualifications:

- Education level: MS in EE in the area of IC design for microwave high-speed analog/mixed-signal IC's.
- Expertise with the fundamentals of circuits, transmission lines, and phase-locked loops.
- 5 years' experience developing integrated CDRs, PLLs, VCOs, and phase detectors.
- Demonstrated expertise with circuit design tools (SPICE, ADS)
- High level of proficiency in layout, DRC and LVS CAD tools.
- Experience with time and frequency domain measurements for IC characterization.
- Candidate must have designed and lab tested at least one physical, integrated or discrete PLL or CDR
- Experience designing in a high speed SiGe BiCMOS technology is a plus.
- Excellent communication, presentation, and documentation skills.

Responsibilities:

The IC Design Engineer is responsible for designing and developing next-generation products that meet all technical, budget, and time constraints. Duties include the following:

- Design of high performance, broadband microwave integrated circuits for telecom applications.
- Detailed circuit design of microwave broadband CDRs, VCOs, phase detectors and other high-speed mixed-signal circuits.
- Circuit design of microwave broadband amplifiers, VCOs, PLLs, CDRs, DACs, equalizers.
- Transistor level simulation, CAD layout, DRC, LVS.
- Develop accurate device models for IC design.
- Testing, trouble-shooting, evaluation of circuits.
- Interface with engineering, marketing and packaging teams to assist in specification of IC and final product requirements.
- Assist operations to ensure manufacturability of product designs.

Employment Status Criteria:

US Citizenship, Permanent Residence (Green card) status, or authorization to work in the US **without** sponsorship required.

Interested? If you have any questions please call Dale at 707.820.7900 or via linked-in at <http://www.linkedin.com/in/dalepcorreia>