

Analog/Mixed Signal CMOS IC Designer

Roswell Biotechnologies, Inc. is a fast-paced start-up company developing disruptive technology for Precision Medicine, based on state-of-the-art CMOS mixed-signal sensor chip technology. The leadership of Roswell have unmatched experience in developing high impact, high value, cutting-edge devices for the Life Sciences, and bringing them to market, globally.

The Analog/Mixed Signal CMOS IC Designer will support the needs of the CMOS Sensor Chip Design Program, executing on an aggressive roadmap to develop an ultra-high performance CMOS bio-nano-sensor chip for global commercial deployment in bio-medical testing devices. The IC Designer will work under the direction of the Lead Chip Architect, and work closely with the Lead Electrical Engineer, as a key member of the hardware development team. Primary responsibilities will consist of the design, simulation, performance optimization and layout of sub-systems of the CMOS sensor chips, working closely with the Lead Architect.

Specific responsibilities include:

- Detailed design and optimization of analog/mixed signal CMOS circuits
- Simulation of circuit performance
- Chip Layout
- Documentation of chip design and simulation results
- Preparation of materials on chip design and performance for company presentations
- Assisting with testing and characterization of chips

The ideal candidate can thrive in an extremely fast paced, dynamic environment, as part of a team of highly skilled, highly focused and highly motivated people who believe in changing the world by creating disruptive technology.

Qualifications: MS or PhD in Electrical Engineering. 2+ years' experience working on the design of analog or mixed signal CMOS circuit design. Extensive experience using the Cadence IC design software. It is desirable to have experience with CMOS sensor arrays and/or other high-density arrayed architectures. It is highly desirable to have experience using TSMC PDKs, particularly TSMC 180nm, 65nm and 28nm.

U.S. Citizens, Green Card Holders, and those authorized to work in the U.S. for any employer will be considered. The position is located in the Sorrento Valley area of San Diego.

To apply, please send your cover letter and CV to hr@roswellbiotech.com