



Signal Labs, Inc., a young entrepreneurial Signal Processing shop headquartered in Reston, Virginia is seeking to fill fulltime positions with highly motivated surveillance Radar experts. Signal Labs has spent four years developing and testing a revolutionary radar receiver technology that very efficiently and simultaneously detects the range and Doppler velocity of any speed target. The novel algorithms used to find the peaks in the cross ambiguity plane are far more efficient than the computations required with matched filter banks and open a host of waveform opportunities to improve FAR, range and ECCM performance of radar systems. Signal Labs is seeking experts who can get excited about raising the bar on radar performance and helping to bring forth the next generation of radar. The following position is immediately available.

### **Principal Radar Systems Engineer**

Location: US-DC-Washington/Metro

Attractive Salary and benefits program including stock options in a best in breed innovative environment.

#### Job Responsibilities:

Seeking an experienced radar engineer who can apply system design experience with Signal Labs' novel signal processing expertise and methods to create solutions to "accepted" radar system performance limitations. The ideal candidate will provide technical leadership in the commercialization of the Simultaneous Range-Doppler (SRD) radar receiver and enjoy a sense of solution ownership and a desire to further develop the solution to meet various search and surveillance applications. The candidate will enjoy the opportunity to directly interact with Missile Defense Customers (Army, Navy, MDA, Marine Corps, Air Force) and defense contractor primes/partners, providing technical support at meetings, and presentations. The candidate will publish white papers with a goal of finding application specific test validation opportunities as the initial step in commercialization.

#### Minimum Requirements:

- Fluent in radar theory, principles of radar operation and practical radar systems design.
- Knowledgeable of real world radar applications, associated difficulties and solutions.
- Effective verbal and written communication skills with successfully demonstrated direct client interactions.
- Capable of documenting and discussing radar architecture and operations.

#### Knowledge or experience in the followings is preferred:

- Phased array and active aperture antennas, klystron and solid state transmitter technologies, receiver and transmitters stability issues, advanced A/D technology.
- Digital signal processing including MTI, pulse Doppler, Monopulse, Imaging, and Adaptive techniques, CFARs, Clutter Maps, and timing issues.
- Data processing including tracker, timing issues, data loading issues, software; interfaces to combat system and/or automation systems including required data, quantity of data, data merging and integration
- Modeling & simulation of radar, targets, and clutter/weather.

#### Qualifications:

- M.S. or preferably Ph.D. in Electrical Engineering (with emphasis in signal processing), Math, or Physics.
- U.S. Citizenship required. Applicants selected will be subject to a Government Security Investigation and must meet eligibility requirements for access to classified information.

### **Signal Labs, Inc.**

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