Job Title: Digital Communication Implementation Architect

Requisition #: 6420

Group: Engineering and Technology Group

Department: RECONFIGURABLE TRANSCEIVER SYSTEM DEV

Clearance Required: Secret

Duties:

- Lead the design, simulation, test and/or application of digital communication and/or GPS hardware implementations.
- Employ a combination of FPGAs, embedded software and control software to implement GPS receivers and/or communication transceivers.
- Analyze modulator and receiver subsystem performance using Matlab, Python, or similar simulation environments.
- Prototype cutting-edge real-time systems for emulation and proof of concept.
- Conduct applied research pertaining to advanced signal processing, and/or reconfigurable communication processing.
- Present results of work in briefings and/or technical reports to customers and colleagues.

Qualifications:

- Minimum of 8 years experience since BS degree in the prototyping of digital communication systems and/or algorithms is required.
- Advanced degree related to design of communication and signal processing hardware is preferred.
- Experience implementing communication algorithms using embedded software, multithreaded programming, DSP, FPGA, and/or ADCs/DACs is desired.
- Proficiency with Xilinx ISE, Matlab, Python and/or Modelsim is preferred.
- Prior hand's on laboratory experience is essential.
- A theoretical understanding and practical experience with modern communication and digital signal processing techniques is highly desirable. CJC1, Dice1,#LI-Post, Ind123
 - Analog or RF design experience is a plus.
 - Prior design experience in VHDL and C/C++ is preferred.
 - Strong written and verbal communication skills are necessary.
 - SCI or ability to obtain one is desired

The Aerospace Corporation has provided independent technical and scientific research, development, and advisory services to national security space programs since 1960. We operate a federally funded research and development center (FFRDC) for the United States Air Force and the National Reconnaissance Office and support all national security space programs. We also apply more than 50 years of experience with space systems to projects for civil agencies like NASA and the National Oceanic and Atmospheric Administration, commercial companies, universities, and international organizations in the national interest.

From our inception, our highly skilled technical staff has focused on ensuring the success of every mission and developing the most effective and economic space-related hardware and software in the world. Our greatest asset is the technical expertise of our people. Our state-of-the-art laboratory facilities are staffed by some of the leading scientists in the world.

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This opportunity is located in El Segundo.

Also, all of our regular positions require the ability to obtain a he ability to obtain a US government issued security clearance at the secret level. The interested candidates should review the following state department link to see if they are eligible for a US security clearance: http://www.state.gov/m/ds/clearances/c10977.htm#2