

Job Title: Signal Processing / GNSS Engineer

Requisition ID: 42069

All Locations: El Segundo, CA (California)

A trusted partner. A national resource. A leader in national security space. We are THE Aerospace Corporation. A team that takes pride in our readiness to solve some of the most complex technical challenges in existence. With challenges spanning government to commercial, you'll have the unique opportunity to work on projects that are literally evolving our nation's space and launch capabilities. We all share a common passion and aspiration – to serve a mission much bigger than ourselves. When you join our team, you'll be part of a rare collection of thought leaders and game-changing innovators. Are you ready to launch your career?

Responsibilities

The Aerospace Corporation's Digital Communications Implementation Department uses Software Defined Radios and FPGA technology to analyze, design, implement and test digital transceivers. We conduct our own research and development in addition to evaluating existing systems and those in development. In particular, Wireless & Navigation Section focuses on matters relating to GPS and GNSS. In this position join us on the leading edge of digital communications development.

Key Functions

- Implement, test and evaluate new communications concepts
- Test hardware including GNSS Receivers/Simulators and Military Comm Devices
- Work as an individual or as a team member on analytical and experimental studies
- Document work products in briefings and/or technical reports to customers and colleagues
- Interface with Aerospace internal and external customers, and external contractors for the exchange of technical information
- Candidate will work on a diverse set of projects. It is very important to be hands-on, willing to learn and be comfortable in working in an environment with engineers of diverse backgrounds and expertise
- High motivation with proficiency to learn and carry out tasks with guidance/leadership of experienced staff

Qualifications

REQUIRED QUALIFICATIONS

- Bachelor's degree from an accredited university in Electrical Engineering, Computer Science or a related field.
- 0-1 year of industry related experience
- Understanding in an area of digital signal processing & digital communications
- Experience with laboratory tools such as oscilloscopes, spectrum analyzers
- Proficiency with one or more of the following: MATLAB, C/C++, Python
- Strong written and verbal communication skills.
- This position requires the eligibility to obtain and maintain a security clearance, which is issued by the U.S. government. U.S. citizenship is required to obtain a clearance.

PREFERRED QUALIFICATIONS

- Experience with GNSS/GPS positioning and navigation, or alternative navigation techniques
- Familiarity with GNU Radio
- FPGA development and HDL (Verilog, VHDL) experience
- Familiarity with microwave circuits, measurement tools, and analysis
- Ability to design & analyze digital and/or analog circuits
- Prototyping skills
 - Metal Fabrication
 - CAD (AutoCAD, Solidworks, etc)
 - Additive Manufacturing

Transcript Requirement

Transcripts are required for this position.

Additional Requisition Details

System Job Title: MTS-ASSOCIATE

Clearance Requirement: Secret

Access: None

Polygraph: None

Relocation Available: [[relo]]

Employment Type: Regular

Work Schedule: Full Time

Company Statement

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 provide critical solutions to technologically complex systems in such areas as communications, shipping, law enforcement, and cyber, among others.

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.

Equal Opportunity Commitment

The Aerospace Corporation is an Equal Opportunity/Affirmative Action employer. We believe that a diverse workforce creates an environment in which unique ideas are developed and differing perspectives are valued, producing superior customer solutions. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, gender, gender identity or expression, color, religion, national origin, sexual orientation, protected veteran status, or disability status.

You can also review [The Equal Employment Opportunity is the Law](#) poster and [the supplement](#), as well as the [Pay Transparency Policy Statement](#).