RF MEASUREMENTS ENGINEER

Posting ID: EM1810559F
Company: JT3
Position Type: Full-Time
College Major(s): Electrical/Computer Engineering (EE/CpE)

Company Website: https://www.jt3.com/
Work Location: Las Vegas, NV
Salary: DOE
College Level(s): Graduate Student, PhD. Student

OVERVIEW

Consumer Reports can try out cars and toasters, but it can't test new weapons platforms: That's where JT3 (Joint Test, Tactics, and Training) comes in to play. A joint venture between URS Corporation and Raytheon Technical Services, JT3 provides engineering and technical support services for aerospace and military customers. Areas of operation include mission and project planning, flight test engineering and development, modeling and simulation services, and hardware and software support. JT3 has been involved in testing such high-flying projects as the F-35 Lightning II, F-117 Nighthawk, the B-2 Spirit, and F-22 Raptor.

Roles and Responsibilities

● Serves as RF signal analysis subject matter expert (SME) as it relates to Electronic Warfare (EW) Simulators to support system performance testing, modifications, and new capabilities. The emitters are a combination of open and closed-loop systems, to include phased-array technology and complex signal waveforms.

● Performs signal analysis that includes the review of measurement parameters and characteristics as they relate to EW representative signals. Reviews will be summarized in a report to customers that provide supporting rationale for good or bad signal representation.

● Evaluates the complex waveforms to determine measurement equipment requirements and configurations. This includes the ability to configure and demonstrate test equipment capabilities.

● Provides expert systems/equipment analysis and recommendations to leadership and engineering teams. Recommends tests, equipment modifications, and corrections to design deficiencies through evaluation of operational capability of systems/equipment and review of performance data against standards.

● Serves as a systems integration engineer working with project teams and vendors to field new capabilities ensuring the following elements are addressed:
- Identify and document system level open-loop emitter and closed-loop radar requirements for range integration to include power, communication, instrumentation and command & control.
- Validate existing power, communications, instrumentation and command and control (C2) range interface control documents (ICDs) and update/re-create as necessary.
- Document range modernization needs and generate cost estimates to upgrade the ranges to meet training needs.
- Authors technical studies/reports that analyze, validate, and recommend solutions or course of actions. Utilizes radar principles, propagation formulas, and signal processing knowledge to support outcomes.

Other Related Duties:
- Assists in writing technical proposals, requirements definitions, test plans and other technical documentation. Follow JT3's systems engineering processes and procedures. Performs other related duties as required.
- Research and analyze data such as customer design proposals, specifications and manuals to determine the feasibility of a design or application.
- Devise appropriate tests to evaluate, debug and check systems. Document the results of complex analysis and design tasks.
- Collaborate with Air Force customers to obtain requirements, develops system requirements documents, acquisition and vendor statement of work documents, evaluation tests and summary reports.

Education and Qualifications
Education (or Equivalent Experience):
- Bachelor's Degree in Electrical Engineering, or a combination of formal education and experience equivalent to a four-year college degree.

Experience:
- At least eight years of applicable RF / threat (electronic warfare systems) engineering experience.

Knowledge, Skills, and Abilities Required for this Position:
- Comprehensive knowledge of electronic warfare (EW) policy, doctrine, practices and capabilities combined with a thorough understanding of the analytical, evaluative, and administrative methods required for integration, development, and acquisition of training systems.
- Mastery of IO-related systems analysis and design to serve as technical authority on a wide range of technology and applications. Must have knowledge of emerging technology to apply new solutions to requirements and to plan advanced projects.
- Ability to develop new approaches, establish innovative techniques, and identify measurement and evaluation criteria to determine program effectiveness, develop new or modified work methods, and analyze and resolve highly complex problems.
- Ability to communicate complex concepts, orally and in writing.
**How to Apply**

Click [here](#) to apply. Search using the requisition number “4195.”

To see other JT3 job opportunities go to: [https://www.jt3.com/careers.html](https://www.jt3.com/careers.html) and click "View Available Positions."

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