



Posting Title: Systems Engineer II- JC

Requisition ID: 17421BR

External Job Details:

Job Description:

The Systems Engineering Center (SEC) provides total lifecycle systems engineering for the Integrated Communications System (ICS) and Command and Control Systems (C2S) business areas within Network Centric Systems. We take a lead technical role developing advanced concepts for future systems and next generation technologies. As an entry level engineer, you can expect to apply your training to assignments in requirements definition and analysis, system design and development, system modeling/simulation, system effectiveness/operational analysis, and system integration and test. The SEC requires a Systems Engineer in the ICS department.

Integrated Communication Systems (ICS) Department provides systems engineering for the Integrated Communications Systems business area. The ICS Department focuses on systems engineering solutions for satellite communications, Software Defined Radios, Laser Communications, LOS/BLOS Communications, Civil Communications systems, and Identification Friend or Foe systems. The systems engineering responsibilities span from requirements definition through the entire product life cycle. Activities include architecture development, CONOPS development, trade studies, SATCOM communications analyses (link budget, tracking, pointing, acquisition, cosite), civil communications analysis (RF coverage, system of system monitoring and maintenance), requirements analysis and flowdown to hardware/software configuration items, site surveys & demonstrations, and all IV&V related activities including performance testing (data throughput, channelization profile, protocol performance, Bit Error Rate, Built In Test, acquisition time, spare processor cycles, etc) and environmental test (shock, vibration, sand/dust, heat, temperature, humidity, EMI/EMC/EMP, other).

Required Skills:

- Masters degree in one of the following majors: Applied Mathematics, Computer Engineering, Computer Science, Computer Systems Engineering, Electrical Engineering, Physics, Systems Engineering, Aeronautical Engineering, Robotics Engineering.
- Cumulative GPA of 3.0 or higher.
- Must be eligible for a security clearance.

Desired Skills:

- Educational background/interest in one or more of the following areas: radar architecture, radar algorithms, signal processing, control theory, random processes, probability and statistics, imaging and pattern recognition, communications systems, and IP based networking and wireless networking.

- Engineering Related Internship / Co-op Program experience or prior related work experience.
- Experience in College directed engineering projects performed within a class/student team.
- Modeling and simulation experience (e.g. MATLAB, Simulink).
- Fluency in computer programming languages (e.g. Java, C++, Ada, FORTRAN).

Raytheon is an equal opportunity employer and considers qualified applicants for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, gender identity and expression, age, disability, or Vietnam era, or other eligible veteran status, or any other protected factor.

Business Unit Profile

Raytheon Network Centric Systems (NCS), headquartered in McKinney, Texas, develops and produces mission solutions for networking, command and control, battlespace awareness, and air traffic management. Programs include civilian applications, command and control systems, integrated communications systems, and netted sensor systems. NCS serves all branches of the United States military, the National Guard, the Department of Homeland Security, the Federal Aviation Administration, and other U.S. national security agencies, as well as international customers. NCS is driving transformation in the Information Age by leading Raytheon's Net Centric Operations Enterprise Priority. This effort unites the core strengths of the company to provide networked systems, net-enabled systems, and net-centric integration to customers worldwide for emerging requirements. NCS continues to remain focused on the needs of today's warfighters by providing mission systems integration for the Homeland Security and Intelligence, Surveillance and Reconnaissance missions. We further provide systems and components to support the Missile Defense and Precision Engagement missions. In each of these vital efforts, NCS serves to provide our customers with unprecedented accuracy, speed, and Common Decision Engagement Capability.

Type Of Job: Full Time

Work Location: MA – Marlborough

Relocation Eligible: Yes

Clearance Type: None / Not Required

Expertise:

Electrical Engineering

Physics

Systems Engineering

Aerospace/Aeronautical Engineering

Computer Engineering

Computer Science

Mathematics