OVERVIEW

Raytheon Company is a technology and innovation leader specializing in defense, civil government and cybersecurity solutions. Founded in 1922, Raytheon provides state-of-the-art electronics, mission systems integration, capabilities in C5I (command, control, communications, computing, cyber and intelligence), sensing, effects and mission support services.

Roles and Responsibilities
The Receiver, Exciter and Signal Processing (RESP) Department within the Integrated Defense Systems (IDS) Electrical Design Directorate (EDD) is seeking Electrical Engineers to be part of the Multi-Function RF Systems (MFRFS) product line team to design, develop, integrate and test the most technologically advanced Radars in the world.
The work center for these positions is in the McKinney, Texas facility.

Job Description:
The newly hired Electrical Engineer researches, develops, designs and tests electrical (Analog, Power, RF/Microwave, and/or Digital) components, equipment, systems, sub-systems, and networks for defense, commercial, industrial, domestic and foreign purposes. Applications include, but are not limited to, radar, missile, ship systems electronics, torpedoes, and communication systems. The tasks may include laboratory integration, test and evaluation, and fault isolation of prototype hardware. The engineer may also support system studies, analyses, and simulations from concept through detailed design and production. New engineers will work with and will be mentored by senior engineers.

Possible focus areas:
- Digital Hardware: Subsystem/Module Digital Circuits, FPGA/ASICs, Mixed Process/Photonics/Sensors, COTS systems, COTS Interfaces, Subsystem Development,
VME/PCI interfaces Digital Systems, System Trades, Architecture, Embedded Processing

- Power Conversion: AC/DC, DC/DC and DC/AC, Linear and Switching Supplies, PFC, ZVS, ACS and Resonant Circuits, Synchronization, Noise Controls
- Power Design: Filter, Harmonic Control, EMI, Circuit Simulation, Magnetic Design, Overload, Short Circuit, Stress Analysis
- Test Development: Hardware and/or Software Test Program Set generation, for testing radar, communication, missile, combat control systems, subsystems and components

Education and Qualifications

Required Skills:
- Candidates must be currently enrolled in a BS or MS degree program (or completed a degree no more than 18 months prior to start date) with an emphasis in Electrical Engineering, Electrical and Computer Engineering, Computer Science, Mathematics, Physics or related engineering or science curriculum. Candidate must also have the ability to obtain a security clearance.

Desired Skills:
- Cumulative GPA of 3.0 or higher
- Customer focus and collaboration skills
- Excellent written and oral communication skills
- Strong analytical skills
- Experience with hardware/software design for embedded control
- Experience with VHDL or Verilog
- Exposure to Electromagnetic simulation tools such as Ansoft HFSS, HP ADS, and analytical tools such as MatLab/Simulink
- Familiarity with simulation and CAD tools is a plus
- Knowledge of MS Office or other presentation tools One or more of the following courses: Microwave/RF Engineering, Electromagnetic Theory, Antenna Theory, Communications, Power Electronics Design, Digital Design, Digital Signal Processing, Control Systems Design
- Previous internship or co-op with a defense contractor and/or government agency
- Some project work or co-op/intern experience in control systems design, digital design, Power or Analog design, antenna or RF/Microwave design, analysis or simulation
- Willingness to travel for company business to non-Raytheon facilities

This position requires the eligibility to obtain a security clearance.

What’s YOUR Mission?
Here at Raytheon, we work together as one global team creating trusted, innovative solutions to make the world a safer place. Our innovation spans all domains: from land and sea to air, space and cyberspace. We’re inspired by a noble mission that’s shared by Raytheon employees around the globe and an inclusive culture that empowers employees and celebrates their contributions.
How to Apply