SYSTEMS ENGINEER

Posting ID: EM18A164C5

Company: Raytheon

Position Type: Full-Time

College Major(s): Mechanical Engineering (ME), Electrical/Computer Engineering (EE/CpE), Computer Science (CS)

College Level(s): Undergraduate-Senior, Graduate Student, PhD. Student, Alumni

Company Website: https://www.raytheon.com/

Work Location: El Segundo, CA

Salary:

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

Are you amazed by the satellite views of cool places on Earth? Are you excited by the fire and fury of a rocket launching into space to examine distant galaxies? All of these capabilities are made possible by the products made by Raytheon. We invite you to consider joining us in developing the next generation of space-based systems.

Perhaps your interests are in EO/IR optical or RF technology, sensor test, orbital mechanics, digital signal processing, space mission planning or any of the myriad of engineering disciplines that make space imaging a reality. Engineering and the sciences are the avenues we use to make innovative imaging products that protect our planet, explore our universe, and ensure our national security. If you have a clear passion for developing or testing new technologies, we would like to hear from you. Space imaging is a rapidly expanding field, and we seek your skills and imagination to grow in partnership with us.

We are the Raytheon Space Systems Engineering Integration & Test (SEIT) center. Our job is to ensure that from beginning to end, our products are properly engineered.

When a program begins, our Systems Engineers and Analysts define the product requirements based on the needs of the customer. Our Design Engineers then use their skills and creativity to design innovative solutions. Our Software Engineers create flawless applications that allow for autonomous operations in space. Our Integration Engineers assemble the elements of the product to create the most advanced imaging systems on the planet. Finally, our Test Engineers test the completed system in the most severe environmental conditions.

Systems Engineering, Integration and Test is a great place to become intimately involved in the
hardware, software, and missions of space systems. We analyze product options using simulations and modeling to select the best designs. We engineer the technical requirements for our products, develop plans and procedures for testing, conduct tests, and analyze test data to ensure the systems will work as intended in the brutal environment of space. We also support the on-orbit operation of our sensors from control centers located around the world.

Often our products include advanced lenses, mirrors, focal plane arrays, antennas, motors, cooling systems, power supplies, processors, and loads of electronics and software. Our engineers develop a keen understanding of high tech space products, which is a fantastic gateway to career advancement in technical leadership or management.

When a rocket vaults our products into orbit, our teams gather at the launch site and cheer our work into space with a sense of well-deserved pride and accomplishment. Soon after, the images created by our engineers and scientists begin appearing on countless sites on the internet, and support critical national security objectives. Our contributions are real, and make an important difference in the world.

**Education and Qualifications**

Experience in systems engineering, analysis, and/or verification

Demonstrated interest in system engineering processes, including requirements definition, design, test planning, test execution, data analysis, and operations support

Multidisciplinary experience in the engineering design and/or test of optical and/or RF systems and associated special test equipment

Experience in preparing and delivering briefings to management and customers

Demonstrated desire to successfully pursue new challenges, improve and broaden technical skills, seek greater responsibilities, and increase individual value to the organization

Proficient in Matlab, C++, Python, or related programming languages

Bachelor's degree in Engineering, Physics, Math, or related discipline

U.S. Citizenship status is required as this position will require the ability to access US only data systems

**Preferred Skills**

Experience in design, development, integration and test (system verification)

Experience in hardware and/or software development of embedded, real-time systems

Experience with targeting, ground station pass analysis, constellation design, stationkeeping analysis, or collision avoidance

Experience with small satellite design

Experience in machine learning, artificial intelligence, deep learning, convolutional neural networks

Leadership skills to develop competitive proposals for Government, commercial, and international customers

Technical publications and/or patents

Active Secret and/or additional clearances

**How to Apply**


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