EARLY CAREER GNC ENGINEER

Posting ID: EM192194BB

Company: Raytheon

Position Type: Full-Time

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

Work Location: Tucson, AZ

Salary: DOE

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

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

OVERVIEW

Are you an early career GNC Engineer looking to mentor with the best in the industry?

Would you like an opportunity with a global business dedicated to the mission of making the world a safer place?

If you are prepared to collaborate with the best in the nation, Raytheon Missile Systems headquartered in Tucson, AZ, wants to hear from you!

The Guidance, Navigation and Control Center (GNC) is responsible for all requirements, trade studies, algorithm designs and performance analyses required to develop RMS products that navigate and guide successfully. The Center's scope includes aerodynamic analysis, wind tunnel testing and model development: flight control system design and analysis; servo and control actuation system design and analysis; strap down and GPS aided navigation system design and analysis; target state estimation, midcourse and terminal guidance design optimization as well as system performance analysis.

Roles and Responsibilities

Entry level position conducting missile guidance, navigation, air vehicle, control system, embedded software and missile performance analysis. Missile guidance tasks include guidance law development, state estimation, sensor fusion, trajectory shaping and miss distance performance optimization. Air vehicle design tasks include aerodynamics/stability & control, kinematic and propulsion system trade studies including computational fluid dynamics analysis, wind tunnel testing and aerodynamic model development. Navigation tasks include system trade studies, component modeling of inertial measurement units (IMU) and global positioning systems (GPS), as well as simulation of navigation algorithms particularly Kalman filters. Control system tasks include autopilot, control actuation system, mechanism and gimbaled seeker servo design. Embedded software includes real-time GNC algorithm development for missile system products. Missile performance analysis includes model development, system
optimization and Monte Carlo assessments with expected system disturbances.

**Education and Qualifications**
Bachelor in one of the following: Aerospace Engineering, Electrical Engineering, Mechanical Engineering, Physics, Mathematics or Systems Engineering
Two (2) years of applied (non-academic) work experience or a MS degree in the majors listed above with academic experience and graduated 18+ months ago.
Strong academic and analytical background with course work including a combination of digital and modern control systems, dynamics, Kalman filter design, aerodynamics, CFD analysis or signal processing.
Computer skills include Matlab, C, C++, Object Oriented design, familiarity with UNIX and LINUX operating systems as well as Microsoft products
An active secret clearance (interim to start) with the Department of Defense is required for this position

**Preferred Skills**
Class projects, professional internships, or academic research demonstrating the ability to apply technical course work or computer skills.
Effective communication and organization skills.
Current DoD clearance

**How to Apply**
[https://jobs.raytheon.com/job/-/-/4679/11134648?codes=3661&utm_source=directemployers.org&utm_campaign=enterprise&utm_medium=niche_site&utm_content=job_posting&ss=paid&dclid=CJa6wvzBguECFeQprQYdYdUm1A](https://jobs.raytheon.com/job/-/-/4679/11134648?codes=3661&utm_source=directemployers.org&utm_campaign=enterprise&utm_medium=niche_site&utm_content=job_posting&ss=paid&dclid=CJa6wvzBguECFeQprQYdYdUm1A)