



Rhea Space Activity LUNINT Flight Software Engineer Job Announcement

THE COMPANY

[Rhea Space Activity](#), based out of Washington, DC, hit the ground running in 2018 and secured several lunar intelligence (LUNINT) contracts with the United States Space Force (USSF) and United States Air Force (USAF). We need a motivated Flight Software Engineer willing to work in a fast-paced start-up environment; learn the ropes of the start-up scene; and gain mentorship from experienced members of the burgeoning New Space industry.

THE POSITION

The Flight Software Engineer is responsible for providing technical expertise on the needs of the proposed system, contributing in technical discussions with a multidisciplinary team, and developing navigation software for spacecraft operating throughout cislunar space. As part of our small team, you will be our in-house flight software expert, and be instrumental in the development of novel flight control software for the USSF/USAF.

MANDATORY QUALIFICATIONS

1. Deep experience with coding in C and/or C++.
2. Deep experience with coding MATLAB/Simulink.
3. Familiarity or experience in several of the following areas: orbital dynamics, astrodynamics, manifold dynamics, guidance, navigation, control, avionics, Kalman filtering, optics, and systems engineering.
4. Completed M.S., Ph.D, or equivalent in a STEM field.
5. Able to relocate to the Washington D.C. metro area no later than September 2021.
6. Ability to travel within the continental United States and to various international destinations.
7. Must be a U.S. citizen or national, U.S. permanent resident (current Green Card holder), or lawfully admitted into the U.S. as a refugee or granted asylum.

HIGHLY DESIRED QUALIFICATIONS

1. Experience in incorporating or developing real-time flight software appropriate for satellite missions.
2. Fluent in software design processes of requirements, design, coding, unit testing, integrated testing, and full systems testing.
3. Experience designing, deploying and supporting one or more complete flight control systems or systems of similar complexity.
4. Experience with Guidance, Navigation, and Control software integration in an embedded system, and familiarity with flight sensors and actuators.
5. Experienced or willing to learn [Basilisk](#), [AutoNav](#), [The Spice Toolkit](#).



6. Experience, interest, or excitement in the following areas is a bonus: engines, communications systems, aerodynamics, space robotics, space-based radar, electro-optical sensors, plenoptic imaging concepts, mechatronics, space launch systems, electrical engineering, mechanical engineering, data science.
7. Eligibility to obtain Top Secret/SCI security clearance.

PAY, BENEFITS, & WORK SCHEDULE

- Salary Range: \$95,000-\$155,000
- Matching Simple IRA with 3% matching
- 100% Premium Full Healthcare Package
- 100% Premium Full Dental Care Package
- 100% Premium Full Vision Care Package
- \$300/month credit for Uber credits
- \$100/month credit for Uber Eats credits
- Twice per month housekeeping service at home office
- Relocation expenses
- Signing bonus
- Unlimited Leave, and all Federal Holidays Off
- Up to \$10,000/year in academic training towards to a STEM skill/degree
- Super cool coworkers

NEXT STEPS

Applications are being accepted on a rolling basis. To apply, submit a resume and a paragraph answering the questions below to info@rheaspaceactivity.com no later than July 31, 2021.

1. What is most exciting to you about where the space industry is headed?
2. What would be the most personally meaningful technical development you hope to see in your lifetime?



When you consider your career opportunities, think big. We are!