

Busek Space and Propulsion systems is currently seeking a Software Engineering Intern for Summer 2021.

About Busek:

The work we do enables a range of scientific, commercial, and defense missions in space from small spacecraft in low-earth orbit, to geostationary satellites, to cubesats going to the moon and beyond. Our talented and dedicated staff have collective expertise spanning in-space propulsion, vacuum systems, materials science, and high-fidelity electronic solutions. We are a leading source for advanced electric propulsion thrusters for use on military, government, and commercial satellites. Among our many accomplishments are the first US Hall thruster in space, the first microPPT thrusters, the first flight-proven electrospray thrusters, the first propellant-less Carbon Nano-tube Field Emission Cathode Neutralizer, and the world's lowest noise thrust stand (noise level below 0.1 μ N/rt-Hz in the 1mHz-100mHz bandwidth).

Description:

Interns will work directly with engineers to develop control and simulation software for a TRL-6 technology demonstrator. Potential projects include work on embedded control software, web based test and control interfaces, or mission simulation.

Responsibilities include:

- Developing new software under the oversight of a senior engineer
- Researching and implementing state-of-the-art solutions for existing problems
- Participate in design meetings and reviews

Requirements:

- Rising Junior or Senior pursuing a B.S. in Computer Science
- Must be available to work full-time hours, in person in Natick, MA
- Must have experience with C and C++
- Must be familiar with Linux and general software tooling (make, cmake, git, etc...)
- Must be flexible and able to handle multiple priorities and be able to work for moderate periods of time without direct supervision
- Experience with Python and web development a plus
- Experience with Blender and 3D graphics a plus
- Experience with embedded systems development a plus

Additional Requirements:

Employment is contingent on other factors including, credit and background checks, drug screens, and acceptance of employer agreement. To conform to U.S. Government space technology export regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., or protected individual as defined by 8 U.S.C. 1324b(a)(3).

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or any other protected factor. Busek is an equal opportunity employer. Applications should be submitted to rgalliath@busek.com. Please include the word 'Internship' in the subject line.