Spacecraft Software Engineer
at Spire
Singapore

Working on our satellites offers software developers a chance to interact with the fullest of stacks, and this position can be customized to fit a variety of experiences and skill sets. As a Spacecraft Software Developer you will be working on the satellites and their terrestrial communication relays. You will have the opportunity to work on various parts of the stack including:

- Core systems: Design and implement improvements to our onboard power distribution, computation, and comm systems to enhance functionality, usability, robustness, performance, and integrate new technology
- Communications and radio: Leverage innovations in radio design by implementing new communication protocols and integrating new radio hardware
- Ground systems: Update ground systems to support changes over multiple generations of satellites
- Satellite application platform: Build frameworks for the automated execution of work on the satellite to meet customer requirements or changing operational needs

Candidates must have experience with the following:

- Extensive experience with C: interrupt handlers, concurrency, etc.
- Strong Linux skills: extensive CLI/scripting familiarity, kernel mods, drivers, etc.
- Experience with sensor integration over I2C, SPI, CAN, UART, etc.
- Scripting Familiarity: Python, Ruby, Bash, etc.

Strong candidates will also possess skills in one or more of the following areas:

- General hardware skills (EE,PCB,PSI)
- Networking (ISO, IP, protocol design)
- Domain Knowledge (ADCS)
- Embedded OS (FreeRTOS, embedded Linux)
- FPGA expertise (verilog, VHDL)
- RF programming (SDR, USRP)

Please note that the first step in our application process is a challenge, which will be sent to you soon after the submission of your application. Our motto is ‘show me the data,’ so you’ll have three days to give us your best work on a problem that lets you put your coding skills on display.

For more information, you may contact:-

Meryl Lee
Human Resources, Asia Pacific
Spire Global Singapore Pte. Ltd.

Email: meryl.lee@spire.com | Office: +65 6438 1630 | Mobile: +65 9660 2981
Address: 28 Maxwell Road, #04-07 Red Dot Traffic Building, Singapore 069120