



Senior C++ Software Engineer Position Summary

At JPS, we design products to enhance communications systems by making them more versatile, more secure, and more robust. For over 30 years, we have provided innovative solutions to solve modern challenges for Public Safety, Military, Government, Oil/Gas, and Commercial users.

We are seeking a full-time software engineer to work on a multi-threaded, Linux-based, C++ application that processes real-time audio and provides a web-based user interface. The software typically runs on an embedded Linux platform but is not particularly resource constrained like typical embedded products. However, given the nature of processing real-time audio, software performance will always need to be considered - this is not a standard business/enterprise application.

C++, Linux, and network programming experience are required. An extended skill set that includes Java (for unit testing), Typescript (for the UI), cloud computing technologies (e.g., AWS), general web-development experience, and exposure to audio/digital signal processing are nice to have but not mandatory.

You will be working on a small team with a few other engineers. However, comfort with solving technology problems on your own is essential, as is being a self-starter. The work environment is casual, friendly, and flexible. We are a small company but have established a strong reputation and standing in the industry over several decades. Occasional or periodic working from home is an option, but because of the nature of our products being in the office is often helpful. However, you will have your own office with a door - there are no cubicles.

This project will continue indefinitely, and we are looking for somebody who is interested in continuing to work on this product suite for the long-term. Personal preferences are considered when possible. You are likely to have ample opportunities to learn new things.

Required skills and qualifications:

- Proficiency in C++
- Proficiency in Linux
- Proficiency in network programming (HTTP, sockets, TCP, UDP, etc.)

Preferred technology experience:

- Audio signal processing
- NAT routing challenges
- Jenkins
- Typescript
- Angular
- Java
- Radio technologies and protocols (uncommon to have - don't worry about this)
- Cloud computing platforms (AWS, etc.)

Desired Personality Traits:

- Self-starter
- Detail-oriented
- Desire for a long-term role
- Comfort with an unstructured work environment
- Comfort working on a small team
- Comfort with responsibility
- Comfort working with customers on occasion