



Software Engineer - Radar Wind Profiler (RWP) – Radiometrics Corporation, Frederick, CO

What are we about?

Radiometrics Corporation has considerable experience delivering meteorological technologies to international weather service, airports, and space launch agencies. One mission of Radiometrics is to provide severe/hazardous weather detection and prediction tools, meteorological displays, and numerical modeling solutions to enhance the abilities of operational forecasters to meet their core missions of saving lives, minimizing property damage and economic losses. Our goal is to be globally recognized for the innovative systems we bring to the weather industry and end user clients.

Job Description:

Radiometrics is seeking a Software Engineer for our Radar Wind Profiler product line with 5+ years of experience for a hands-on software engineering role. The Software Engineer will modernize and implement a suite of software applications controlling wind profiling radars and producing wind profiles and other meteorological data. In addition, the Software Engineer will support product integration and communication at customer locations. The position is customer facing and will require troubleshooting of deployed systems. Occasional domestic and international travel will be required.

Responsibilities:

The primary opportunity of the position is to lead the design, development, and testing of a suite of software applications controlling hardware for our next generation products as well as support existing instruments and customers. These duties include, but are not limited to:

- Collect and understand radar wind profiler system requirements.
- Design a new modular, radar software system control architecture.
- Refactor and rewrite existing operational C and LabView functions using C++ and other languages.
- Design and implement a system error management scheme along with hardware fault detection algorithms which present clear information to users and log error details.
- Develop and maintain software modules and documentation.
- Develop, implement, and monitor automated regression tests of instrument controlling software.
- Work well in a team that includes meteorologists, RF engineers, electronics engineers, software contractors and employees.

Requirements:

- Fluency with digital signal processing (e.g., DFTs, spectral analyses, etc.).
- Ability to code quickly and effectively as well as conform to coding standards.



- At least 5 years of work experience writing code in C/C++, Python, and LabView.
- Writing cross platform (Windows and Linux) code and scripts.
- Writing hardware controlling applications that use Data Pipelines and message queues.
- Experience using SQL databases.
- Experience with source control and version control applications, e.g., Git and SVN.
- Excellent English verbal and written communication skills.
- Willingness to commute or relocate.

Education:

- Minimum BS in Software Engineering, Computer Engineering or Computer Science.

Ways to Stand Out

- Experience with real time radar data acquisition and manipulation, Software Defined Radio (SDR) cards and FPGA programming.
- Having implemented automated testing of software applications and systems.
- Experience networking devices including detecting security problems, using SFTP, etc.
- Strong math and problem-solving skills.
- Fluency with modern product development methodologies such as Agile.
- Willingness to occasionally travel to domestic and international customer locations (~25% travel).

Radiometrics Corporation offers a comprehensive benefits package which includes Medical, Dental, Vision, Life AD&D, Long Term Disability, HSA, and 401(k) with company matching and contributions, paid holidays, paid sick leave, and flexible time off.

Base pay is based on market location and may vary based on experience, skills, education, and other job-related reasons.

Job Type: Full-time

Pay: \$120,000 - \$140,000 annually

Radiometrics is an equal opportunity employer, and our success draws upon the diverse viewpoints, skills, and experiences of our employees. We are committed to equal employment opportunity regardless of race, color, ancestry, religion, sex, national origin, sexual orientation, age, marital status, disability, gender identity or veteran status.