



**IRONHAWK**  
T E C H N O L O G I E S

*Delivering Decision Critical Data™*

## Position Title: Compression Software Engineer

### Company Overview

Ironhawk Technologies' ([www.ironhawk.com](http://www.ironhawk.com)) mission is to Deliver Decision Critical Data™ throughout the last tactical mile to the *tip of the sword* over narrow band satellite communication networks. Our advanced Java-based digital data management solutions are sold not only to the government, but also to intelligence-based and commercial organizations.



In this environment, we enable distributed and mobile organizations to share, synchronize and retrieve information across multiple platforms, databases, and networks. We accomplish these objectives by creating technology platforms, applications and services that improve the performance of our military communications and save lives in the operating theater.

### Position Responsibilities

Ironhawk has an immediate need for talented software developers with extensive knowledge of compression techniques and algorithms, and their associated best practices. Candidates must have in-depth experience developing file-based compression algorithms, such as delta encoding, LZW, PPMD, BWT, etc., which radically reduce the size of complex file structures, including exceedingly large files containing ASCII text, XML, and even binary data such as images. Candidates must further have the ability to select optimal algorithms that properly balance compression optimality against time and computing power in order to analyze complex file structures in real-world situations. The ideal candidate will have a track record of delivering such innovative solutions to market.

### Position Requirements

- 10 years of software experience specifically developing compression-based applications.
- Expert knowledge of C++ and/or Java and of the application of OOD and OOP methodologies.
- In-depth theoretical and practical understanding of delta encoding algorithms and their applications.
- Real-world experience developing cross-platform compression solutions.
- Hands-on experience balancing performance while taking into account competing interests such as size vs. time and CPU vs. RAM.
  - Strong problem-solving capabilities
- Proven ability in undertaking self-directed work
- Excellent oral and written communication skills in the context of presenting sophisticated and complex technical ideas.
- Bachelor's degree in Computer Science, Software Engineering, or a science-related discipline.

***Employment Opportunity: Compression Software Engineer***



**IRONHAWK**  
T E C H N O L O G I E S

*Delivering Decision Critical Data™*

### **Strongly preferred, but not required**

- Experience with video streaming and compression algorithms.
- Experience with embedded programming, including an understanding of low-level OS design and device driver implementation.



- Strong process background managing software builds and releases.
- Master's or Ph.D. degree in computer science or a science-related discipline.
- US Citizenship.

### **Equal Opportunity**

Ironhawk is an Equal Opportunity Employer. Our hiring and employment decisions are based solely on your individual merit and your qualifications directly related to professional competence. Ironhawk does not discriminate on the basis of race, color, religion, national origin, ancestry, pregnancy status, sex, age, marital status, disability, medical condition, sexual orientation, gender identity, or any other characteristics protected by applicable Federal and/or state law. Ironhawk will also make all reasonable accommodations to meet its obligations under the Americans with Disabilities Act (ADA) and state disability laws.

### **How To Apply**

Ironhawk offers a competitive compensation package, including comprehensive benefits (health, 401K, stock options and profit sharing). To be considered for this position, you must meet the minimum requirements as described above and forward your cover letter and resume online to [jobs@ironhawk.com](mailto:jobs@ironhawk.com). Agencies: please note that Ironhawk is not responsible for any fees for unsolicited resumes.

