



Job Title: Software Engineer with Tactical Environment Exp. Status: Full Time

Location: Akron OH / Fort Worth TX / Lexington Park MD / Orlando, FL.

COMPANY OVERVIEW

BGI, LLC is an innovative small business that provides government and industry customers with expert-based services and products that enhance capability and profitability in programs related to aviation training. Headquartered in Dallas, BGI has a strong military heritage and brings together engineers, operational analysts and instructor-experienced aircrews from a variety of backgrounds. BGI has built a successful team by seeking out, hiring and cultivating men and women of integrity. Our team is composed of the “best of the best” aviators from across the joint services; along with people from a wide variety other endeavors. Every member of the team is an expert in his or her field, has outstanding communication and interpersonal skills, and has the ability to apply those skills effectively in service to our customers. We are seeking individuals to join our team that encompass those same unique qualities.

POSITION SUMMARY

BGI, LLC’s Engineering Division has immediate openings for Software Engineers with aviation experience. Candidates will participate in the design, development, and test of products developed for the aviation industry including 3D situational awareness tools and simulation products.

As a member of the team, individuals will be applying their knowledge and experience to the mission objectives. A set of strong interpersonal skills, with an ability to work well in a team environment, will serve well in our rich technological environment. Tasking is dynamic and will include fields such as artificial intelligence, aviation system modeling and simulation, 3D graphics and rendering, sensor simulation, aerodynamic modeling, and hardware interfacing. On a daily basis, the individual will coordinate their efforts with the team, then work to design, implement, and test their solutions with minimal supervision. Some travel will be required. Pay is commensurate with experience. Full-time employee benefits include health care, 401(k) with safe-harbor company matching contributions, and paid time off.

REQUIRED QUALIFICATIONS

The individual must be a US citizen and fluent in English. An ability to acquire a DoD security clearance is a prerequisite to permanent employment. Exposure to DoD simulation and training is required.

- Software Architecture
 - Real-time, distributed processing and Design Patterns
 - Data organization and presentation
 - Mathematical data analysis
 - Development of simulated tactical environments
- Modeling of vehicle systems
 - Experience with vehicle sensors (radar, FLIR, etc.)
 - Experience with vehicle systems (weapons, avionics, aerodynamics)
 - Experience with flight performance parameters and flight controls
 - Development of SW and tools related to 6-DOF aeronautical modeling

BGI - Equal Employment Opportunity

Equal Employment Opportunity has been, and will continue to be, a fundamental principle at BGI where employment is based upon personal capabilities and qualifications without discrimination because of race, color, religion, sex, age, national origin, disability, or any other protected characteristic as established by law.



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- Modeling of defense systems
 - Surface-to-air systems
 - Integrated Air Defense Systems
 - Modeling of Tactics & Behaviors
 - Operator behavior patterns
 - Infrastructure to support varying behavioral patterns
 - Command & Control systems
 - Tools
 - Development in C++ using Visual Studio / Visual Source Safe
 - Design and development of DLLs and associated APIs.
 - Data management through STL; XML parsing using Xerces
 - Large-scale systems integration
 - Networking
 - UDP sockets
 - Systems Engineering

DESIRED QUALIFICATIONS

Job history may range from 1-15 years of experience. Past experience or training in the fields of computer science, gaming, engineering, physics, and aviation are all applicable.

Additional experiences of value include;

- Program / Technical management experience
- Understanding of DoD requirements and processes
- Programming for real-time systems
- SW Development for distributed systems (networked systems, DIS or HLA protocols ideally)

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