

Immediate Opening for a C++ Programmer  
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(Location, Florence, KY)

New Global Systems for Intelligent Transportation Management (NGS) is a small R&D business. Since 2008, it has completed Phase I and II of a Small Business Innovative Research (SBIR) project from the US Department of Transportation (US DOT) with a matching grant from the State of Kentucky. The company has offices in Florence, KY, Lexington, KY, and Starkville, MS. NGS currently employs the president, three full time professional programmers and five consultants across the country. NGS operates from Tuesday to Saturday.

As a result of US DOT Phase IIB SBIR award, the release of its state-of-the-art cloud-based traffic simulation software worldwide and the increase of business and engineering activities, one **C++ computer programmer position** is open for application immediately. The **Programmer** is expected to work to improve the 3D animation and graphic user interface. The position is expected to work **40 hours per week in Florence, KY.**

The starting pay rate is 20-30 dollars per hour, depending on the experience and work efficiency. The **Programmer** will be evaluated periodically and the pay rate will be adjusted according to performance. A credit check will be conducted. Legal permit to work in US will be verified through US DHS E-verify system.

20 hours per week and/or less than perfect qualification will be considered. Usually, internship position will be officered in this case.

For a possible interview, please email your resume, cover letter and names of references to [admin@ngsim.com](mailto:admin@ngsim.com). In your cover letter, please specifically elaborate your qualifications relative to the above requirements. You are welcome to ask questions at (662) 368-8848 or by e-mail.

#### Job Responsibilities

- Develop graphical user interface for traffic engineers and researchers to input and edit traffic simulation data.
- Develop 3D animator using OpenSceneGraph to display roadways, vehicles and traffic signals and other control systems.
- Build the application programming interface for traffic simulation models using object-oriented design.
- Develop programs to interact with external traffic simulation models, and implement communications between models using various network protocols.
- Conduct component test and integration test.
- Write development documentation and user manuals.
- Design MySQL database schema to store user-defined data, and develop database access library.

#### Skills Needed

- Must be proficient in C++/CLI and OpenGL programming. Knowledge of Fortran, Java and Python will be a plus.
- Advanced software development methodologies like Object-Oriented Analysis and Design, Test Driven Development.
- Algorithms, data structures and design patterns.
- Domain-specific technologies like UML, WCF, MySQL, ASP.NET.