



GLOBAL ENGINEERING & MATERIALS, INC.

Engineering and Innovative Solutions

GEM Princeton NJ Opportunity

Development Engineer

Global Engineering and Materials, Inc. (GEM) is looking for candidates to fill a position of Development Engineer. The ideal candidate will have demonstrated experience in commercial FEM application/customization and engineering software design using FORTRAN, C/C++, and other object oriented programming languages. The successful applicant should have the ability to perform multi-task, make rational software development decisions and produce results in an efficient manner. The candidate should have strong communication skills, a strong work ethic, and a willingness to solve challenging problems.

Job Duties:

- Develop visualization tools and application scripts using OpenGL, Python or other languages
- Design desktop and web user interfaces
- Develop finite element models for complex structures based on design specifications from customers
- Perform module implementation and integration for Senior Engineers/Developers
- Analyze simulation results and generate reports and presentations
- Perform module and toolkit verification/validation and create documentation for GEM's software products
- Provide support and assistance on GEM's marketing, software training and customer interaction

Position Requirements:

- BS/MS degree in Engineering and Applied Science with 3+ year working experience in Structural Engineering, Modeling and Simulation, and Engineering Software Development
- Familiarity with common software application, testing/QA/bug management, and software training procedure.
- Excellent written and verbal communication skills, highly motivated, good team worker to accomplish group objectives
- Experience in FEM pre and post processing and using commercial finite element tools such as ABAQUS, and CAD/CAE.
- Knowledge of the Windows API, software installation and packaging, and other operating systems such as Linux
- Basic IT skills such as server administration and networking

Global Engineering and Materials, Inc. (<http://www.gem-innovation.com>) is a high-tech firm and provides its clients with innovative research and development, consulting services and multi-physics software tool development. Qualified applicants are invited to send a detailed Vitae with the name, address and phone number of 3 references via [Email \(contact@gem-innovation.com\)](mailto:contact@gem-innovation.com).

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