Software Engineer

Full Time, Immediate Availability

Dec, 2018

QuesTek Innovations LLC, located in Evanston, IL, a leader in the field of integrated computational materials engineering (ICME), is seeking candidates for a Software Engineer to perform work related to ICME software development activities. QuesTek uses its proprietary *Materials by Design®* technologies to rapidly design and develop materials that have superior performance with reduced capital, processing, operating or maintenance costs. The responsibilities and activities of this position will include:

- Develop software tools and programs using various coding languages (e.g. Python/C++ etc.)
- Work with project teams to develop and use computational models for materials design
- Software compilation, debugging, and testing in a LINUX environment (including code analysis)
- Graphical user interface (GUI) implementation for Windows or Web applications
- Versions control, repository support, and maintain modern standard
- Project management, reporting activities, and documentation of software development
- Systems design and systems integration
- Development and writing of scientific proposals for commercial and government research
- Support activities to scientific proposals writing, materials research and development

Strong software programming experience, and good communication skills (both written and oral) are essential. A good understanding of materials science is preferred. Preferred candidates will have an advanced degree (Master or equivalent) in computer science, or the equivalent experience level. A background in using ICME tools to develop novel materials is highly desirable and experience in scientific programming is mandatory. Knowledge of thermodynamic modeling using CALPHAD-based applications is desired but not required. Required expertise includes:

- Long term experience in LINUX/Unix environment and BASH, including reading, compiling, and debugging new or legacy codes/scripts
- Programming experience in C++ and Python
- Experience in scientific computational program development and parallel computing
- Experience in IT systems management
- Preferred to have education or experience in Metallurgy, Material Science, and Mechanical Engineering
- Ability to learn and absorb knowledge in Material Science and Mechanical Engineering

Compensation will be commensurate with experience and will include competitive benefits such as health insurance and a 401(k). Interested candidates shall submit their resumes and other information such as a cover letter summarizing how their experience would allow them to excel in this position via the Careers page of www.questek.com. No phone calls, please.

CREATING MATERIALS BY DESIGN

1820 Ridge Avenue
Evanston, IL 60201
847.328.5800
847.328.5855 fax
www.questek.com