Computer Scientist/Engineer

The Georgia Tech Research Institute (GTRI) seeks qualified candidates to fill the research position of computer scientist/engineer. This position entails working as a member of a research team in the fields of computer science and high performance computing software. GTRI contributes to national computer science research programs in support of national defense, in several areas, including GPU computing, high performance libraries, adaptive optimizations, algorithm analysis, future computing platforms analysis, and implementation of demanding applications on emerging and novel computing platforms. This job includes contributing to the development of new programs through interaction with customers in presentations and demonstrations along with proposal and report preparation. In addition the position includes the opportunity for publication and presentation of research results at symposia and conferences.

Experience: 0 - 10 years

Required skills:
- Strong understanding of linear algebra, and numerical methods for optimized implementation of dense linear algebra functions; ability to work cross-domain to apply computing principles to radar and other signal processing tasks.
- Strong algorithm analysis and design experience.
- Strong C and C++ experience.
- Ability to perform analysis of algorithms for arbitrary and evolving axes of consideration.
- Ability to analyze microarchitecture impact on application behavior and performance.
- Ability to create parallel software that is optimized for speed on a variety of computing platforms and configurations.

Desired skills:
- GPU programming experience strongly desired (especially OpenCL, CUDA, and PTX).
- Compiler writing experience.
- VSIPL experience.
- Fortran, Python, Matlab experience.
- Assembly language experience on more than one platform.
- Experience with platform specific, low level optimizations (*e.g.* SSE, Altivec, Cell processor SPU, GPUs, etc)

Education:
BS, MS, or Ph.D. in Computer Science, Computer Engineering, Electrical Engineering, Mathematics, or related field is required. A Master's degree is required for promotion beyond the Research Engineer/Scientist II level

Important: Must be US citizen, and be able to obtain US DoD security clearance. Current security clearance desired. GTRI conducts Department of Defense contracted R&D programs.

GTRI offers an outstanding work environment and compensation package, and was recently named one of Atlanta's best places to work by the Atlanta Business chronicle! Join our Innovative Team - please send resume to Daphne Mackens at daphne.mackens@gtri.gatech.edu *(reference SEAL-CSE)*

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