

Job Opening

Computer Scientist in Parallel Performance Tools for High-Performance Computing

Job Availability

Immediate

Description

The University of Oregon has an immediate opening in the Performance Research Laboratory for a *Computer Scientist* specializing in parallel performance tools for high-performance computing (HPC). The ideal candidate will have broad experience in parallel computing and scalable HPC systems, an excellent background in parallel performance tools research, extensive knowledge of state-of-the-art performance technologies, and a strong interest in applied tool research for future HPC systems.

The computer scientist will be a member of the TAU Performance System (TM) project (<http://tau.uoregon.edu>), a successful, long-term research program funded by the National Science Foundation and the Department of Energy. The TAU project has a strong team consisting of faculty, project staff, and graduate students. The person selected will be involved in the development of the next-generation of TAU and will have the opportunity to contribute to new research directions in parallel tools, including participation in research grant proposals. Expertise in areas and tools that can be incorporated in TAU is of particular interest. In addition to performance technologies specifically, these areas could include parallel languages, programming environments, compilers, scheduling systems, accelerators, parallel I/O systems, and operating systems.

The position has a strong applied research focus. The computer scientist must be able to put their ideas into practice, not only in respects to creating new performance tools, but also in working with HPC application developers on performance engineering activities. For this reason, it is important to show a strong background in the languages (C, C++, Fortran), parallel software (MPI, OpenMP, multi-threading, message passing, libraries), tools (debuggers, compilers, Unix/Linux utilities), and parallel systems (shared memory, scalable clusters, multi-core, GPU accelerators) used for HPC application development. It is expected that the candidate will have significant experience in a research environment focused on parallel computing and working with HPC application groups. The computer scientist must possess good written and oral communication skills and be able to work independently and as part of a research and development team.

A Ph.D. degree in Computer Science or computer related field is required. The appointment at the University of Oregon would be for twelve months with the title of Research Associate. Salary range will be based on background and experience. Funding for the position is available for at least three years. Yearly continuation of the appointment will depend upon acceptable performance. Continuation of the appointment beyond three years will also depend on availability of funds. The University of Oregon is an equal opportunity employer.

How to Apply

Please send (electronically preferred) a letter of interest, a curriculum vitae, and contact information for three references to:

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