



Group Leader – Technology Integration Group
Joint Institute for Computational Sciences (JICS) High Performance Computing Facility

The University of Tennessee (UT) seeks an outstanding scientist with exceptional leadership experience and skills to serve as the Technology Integration Group Leader of the Joint Institute for Computational Sciences High Performance Computing Facility. Pre-eminence in high performance computing is increasingly critical to maintaining U.S. scientific and technological leadership. JICS is planning the acquisition and deployment of a high performance computing (HPC) system to enable the National Science Foundation's (NSF) science and engineering communities the capability to address some of their most computationally challenging research needs. The position reports to the Project Director of the Joint Institute for Computational Sciences.

This high-profile position will lead a team responsible for delivering new technologies in support of JICS. The technology integration team will work with the HPC Operations group to provide input to the JICS High Performance Computing Facility roadmap. The technology integration group leader will be responsible for developing and delivering any technology gaps to successfully execute that roadmap.

The successful candidate will:

- work with the HPC Operations group to identify gaps in the JICS High Performance Computing Facility technology roadmap and executes plans to close identified technology gaps;
- provide technical leadership, and manages the activities of staff involved in developing technologies for a heterogeneous HPC computer facility including archival storage, file systems, networks and cyber security;
- maintain technical currency and awareness of technological advances relating to the promotion and advancement of HPC systems in solving problems related to the mission of the center;
- integrate the Technology Integration group with the basic computer research teams in other divisions and laboratories; interact with the appropriate program offices and other agencies to develop and maintain program funding for basic and applied research; oversee program development and development of new research directions as a basis of continued funding and the overall health of the group;
- represent group-level work to review committees and outside non-government bodies as appropriate;
- manage the system programming in the JICS High Performance Computing Facility; the successful candidate should be a technical contributor to this team and provide technical leadership on how to integrate these new systems into the JICS High Performance Computing Facility infrastructure;
- manage the team that performs the HPSS Development. The successful candidate will work with the DOE-NNSA to ensure the success of HPSS;

- assign staff to ensure optimum efficiency and utilization and recognize when outsourcing is required; recommend plans to higher-level management for resources needed to ensure customer satisfaction and to maintain a superior computing environment; recommend and implement programs to minimize expenses, ensure optimum output and maintain quality; and
- manage a multi-million dollar budget including subcontracts with multiple vendors.

The ideal candidate will have an advanced degree in computer science (or an equivalent combination of education and experience). Additionally, the position requires five years of directly related research experience with a substantial publications record in HPC research and applications. Requires a demonstrated ability to develop and maintain research programs and substantial programmatic funding. Personnel management skills are essential, along with the ability to communicate effectively verbally and in writing. Knowledge of government laboratory business practices is a plus, specifically within the Department of Energy or related federal departments. Candidates must have a proven capability to work effectively in a team environment.