



TEXAS ADVANCED COMPUTING CENTER  
THE UNIVERSITY OF TEXAS AT AUSTIN

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Mr. John Towns  
National Center for Supercomputing Applications  
University of Illinois at Urbana-Champaign  
Campus Mail Code: MC-257  
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Urbana, IL 61081

Dear John,

The Texas Advanced Computing Center (TACC) at The University of Texas at Austin wishes to participate in the XSEDE Federation and SP Forum as a Level 1 Service Provider (SP) through the provision and support of the Dell Linux Cluster **Lonestar** (OCI-1042124). In addition, TACC will continue to contribute to the overall XSEDE project by participation in efforts within the Project Office, Operations, User Services, Extended Collaborative Support Services, Educations and Outreach, and Technology Insertion Service.

Lonestar is a powerful HPC system with excellent per-core performance and scalability. It has 22,656 cores in its Intel 'Westmere' processors. The 1,888 Dell PowerEdgeM610 compute blades each have two Westmere CPUs and 24GB of memory (45TB aggregate memory) and 146GB of local storage. The system storage includes a 1000TB parallel (configured as SCRATCH and WORK) Lustre file system, and 276TB of local compute-node disk space. Lonestar also provides access to five large memory (1TB) nodes, and fourteen nodes containing two NVIDIA GPUs, giving users access to high-throughput computing and remote visualization capabilities respectively. Lonestar users also have access to the Ranch storage facility for long-term data storage.

Integration of Lonestar and the supporting TACC infrastructure into XSEDE provides the user community with access to multiple capabilities via a single resource, increasing user productivity and further enabling scientific discovery. TACC's contribution to XSEDE via Lonestar and support of other XSEDE resources and services as an integral part of the XSEDE team will continue to remain of utmost priority.

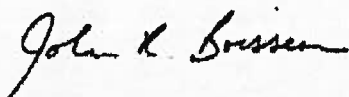
TACC's participation in the XSEDE program has enabled the center to contribute to a national team effort to provide compute, visualization, and data resources, along with the expertise required to effectively use such resources, to researchers around the world. In addition, participation in the XSEDE project has enabled TACC to provide users across the state of Texas with access to resources they would otherwise not have access to and making it possible for them to expand their research efforts and eventually take advantage of other resources available within the partnership.

We have reviewed the *XD Service Providers Forum: Charter, Membership, and Governance* document (version 10.1, dated 2 February 2012, at: [https://www.xsede.org/documents/10157/281380/SPF\\_Definition\\_v10.1\\_120228.pdf3](https://www.xsede.org/documents/10157/281380/SPF_Definition_v10.1_120228.pdf3)) defining the mutual responsibilities of XSEDE and an SP and are confident that we can and will fulfill our obligations as described therein.

In the event that you have an issue with our performance, please contact me directly. Similarly, if we perceive an issue, we will contact you. In either case we commit to working with you to resolve any issues.

We at TACC look forward to working with XSEDE to advance the mission of XSEDE and the NSF in advancing the nation's research capability.

Sincerely,



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