LOUISIANA TECH
UNIVERSITY

Division of Administration and Facilities
PURCHASING

ADDENDUM #1

October 9, 2025

RE: Sealed Bid Number 50012-633-26: Purchase of a High Performance Multi-GPU Computing Server

The following information is provided to amend the original invitation to bid on October 1, 2025.

- **The attached information is provided in response to questions received by the Office of Purchasing regarding this solicitation.**

All other specifications remain unchanged.

Sincerely,

Clint Williams
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Procurement

1. Is electronic submission (e.g., email) sufficient for this bid? Or does it have to be couriered or physically certified, mailed with a return receipt requested? – please see the bid specifications regarding submission

Use Cases & Requirements

1. What are the specific scientific, engineering, or AI workloads this HPC system is expected to support? - This machine will be used for atomic and coarse grained molecular modeling and dynamics simulations coupled with machine learning.
2. Are there documented use cases or user requirements for molecular modeling, deep learning, or other applications? - No
3. Will the system be used for multi-user, multi-project environments, and what are the expected concurrency levels? - This will be a multi-user (10-20) and multi-project (2-3) environment.
4. Are there requirements for job scheduling, resource management, or containerization? - An open source job scheduler (Slurm or OpenPBS) will likely be utilized. Docker containers will also be used.

HPC & AI Capabilities

See the specifications listed in the bid to address the following questions.

1. What double-precision FLOPS performance is required for target workloads?
2. Are there minimum requirements for GPU model, VRAM, and interconnect (NVLink, PCIe)?
3. Is support for AI frameworks (TensorFlow, PyTorch, etc.) required out-of-the-box?
4. Are there expectations for GPU partitioning (MIG, vGPU) or multi-GPU scaling?
5. What are the requirements for job scheduling (e.g., SLURM), orchestration, and provisioning?
6. Is a specific scheduler (SLURM, K8s, or alternative) required for managing HPC and AI workloads?
7. Are there expectations for workload orchestration, automated provisioning, or integration with container platforms?
8. How will resource allocation, queue management, and user access be handled?

Connectivity & Filesystem

See the specifications listed in the bid to address the following questions.

1. What are the requirements for high-speed connectivity to block and object storage?
2. Is InfiniBand required for both compute and storage, and what speeds are expected?
3. Will the system need to connect to existing HPC filesystems, or is new storage being provisioned?
4. Are there requirements for parallel filesystem support (Lustre, GPFS, etc.)?
5. Is there a need for SMB/NFS or object storage protocols?

Facilities (Power/Cooling/Space/Cabling)

See the specifications listed in the bid to address the following questions.

1. What are the power requirements per rack and for the overall system (kW, voltage, redundancy)?
2. What cooling methods are acceptable (air, liquid, rear-door heat exchangers)?
3. Are there constraints on rack size, weight, or floor loading?
4. Is the facility prepared for the specified electrical and cooling loads?
5. Are there requirements for physical security or environmental monitoring?

Acceptance Testing

1. What benchmarks or validation tests are required for acceptance (e.g., HPL, HPCG, IO500, Graph500, MLPerf)?
   Performance should compare favorably to published benchmarks:
   Amber https://ambermd.org/GPUPerformance.php
   NAMD https://www.ks.uiuc.edu/Research/namd/benchmarks/
2. What are the pass/fail criteria for performance, reliability, and functionality? - System must pass installation tests for Amber24, NAMD2/3 and Gromacs2025.3 during compile and software installation processes.
3. Is there a formal acceptance test plan or checklist? - No
4. Who is responsible for acceptance testing: vendor, university, or both? – The University

Growth & Scalability

No upgrades, extensions, or expansions are budgeted in the source of funding.

1. What are the expected growth requirements for compute, GPU, and storage over the next 3–5 years?
2. Is the system designed for modular expansion (additional nodes, GPUs, storage)?
3. Are there requirements for non-disruptive upgrades or scalability?
4. How will future technology refreshes be handled?

Operations & Support

Please refer to the bid specifications.

1. What are the requirements for system administration, monitoring, and alerting?
2. Is there a need for remote management (IPMI, OOB management)?
3. What is the expected support model (on-site, remote, response times)?
4. Are there requirements for training and documentation for administrators and users?
5. What warranty and maintenance terms are required (NBD, advanced parts replacement)?

Business & Compliance

1. Are there any business continuity or disaster recovery requirements? – Bid specifications do not address this
2. What are the compliance requirements (security, data protection, export controls)? - Bid specifications do not address this
3. Are there any restrictions on vendor substitutions or alternative solutions? – Please refer to the bid specifications
4. What are the payment terms, contract renewal options, and cancellation policies? – The University will issue a Purchase Order to the Awarded Vendor with Net30 payment terms upon complete delivery