

Invitation to Bid

LSUHSC Shreveport		BIDS WILL BE PUBLICLY OPENED: October 26, 2020 02:00 PM
VENDOR NO. : SOLICITATION : 007177 OPENING DATE : 10/26/2020		Return Sealed Bid to: Purchasing Department 1501 Kings Highway Shreveport LA 71130-3932 BUYER : Rawls, Lorna S BUYER PHONE : DATE ISSUED : 10/12/2020 REQ. NO : 0069439A FISCAL YEAR : 2021

SUPERCOMPUTER CLUSTER

INSTRUCTIONS TO BIDDERS

1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.

DIVERSE SUPPLIER

(A) SUPPLIER UNDERSTANDS THAT LSU, AS THE STATE'S FLAGSHIP UNIVERSITY, HAS AN INTEREST IN PROVIDING ENTREPRENEURIAL OPPORTUNITIES TO DIVERSITY-OWNED BUSINESSES. THE UNIVERSITY IS DEDICATED TO PROMOTING THE GROWTH AND DEVELOPMENT OF MINORITY, WOMEN, AND SMALL AND HISTORICALLY UNDERUTILIZED BUSINESSES ("DIVERSE BUSINESSES") BY PROVIDING OPPORTUNITIES TO PARTICIPATE IN UNIVERSITY CONTRACTS.

(B) IN SUPPORT OF THIS COMMITMENT, THE SUPPLIER SHALL USE GOOD FAITH AND BEST EFFORTS TO PROVIDE OPPORTUNITIES TO DIVERSE BUSINESSES THAT ARE EITHER CERTIFIED BY THE STATE OR ANOTHER CERTIFYING AGENCY IN A DIVERSE CATEGORY, AS A SUBCONTRACTOR OR SUPPLIER UNDER THIS AGREEMENT.

(C) IF APPLICABLE, SUPPLIER SHALL PROVIDE LSU WITH A LIST OF DIVERSITY-OWNED BUSINESSES DURING EACH CONTRACT YEAR, THE LIST OF BUSINESSES SHOULD IDENTIFY:

- (1) THE NAME OF THE BUSINESS;
- (2) ITS PRINCIPAL OFFICE OR ADDRESS;
- (3) THE OWNER(S); AND
- (4) THE SERVICES OR GOODS THAT IT MAY PROVIDE OR SUPPLY AND THE VALUE OF THE GOODS OR SERVICES PROCURED FROM THE BUSINESSES INCLUDED ON SUPPLIER'S LIST.

(D) TO THE EXTENT THAT ANY FEDERAL OR STATE LAW, RULE, OR REGULATION WOULD REQUIRE THAT THIS SECTION BE MODIFIED OR VOIDED, THE PARTIES AGREE THAT SUCH PROVISION CAN BE AMENDED OR SEVERED FROM THE AGREEMENT WITHOUT AFFECTING ANY OF THE OTHER TERMS OF THE AGREEMENT.

2. FILL IN ALL BLANK SPACES.

3. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALIZED BY THE BIDDER.

4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER.

5. SPECIFY YOUR PAYMENT TERMS: _____ . CASH DISCOUNTS FOR LESS THAN 30 DAYS OR LESS THAN 1% WILL BE ACCEPTED, BUT WILL NOT BE CONSIDERED IN DETERMINING AWARDS

BY SIGNING THIS BID, THE BIDDER CERTIFIES:

* THAT NEITHER THIS BUSINESS ENTITY NOR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS IS CURRENTLY LISTED AS EXCLUDED OR SANCTIONED BY EITHER THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OFFICE OF INSPECTOR GENERAL (OIG) OR THE GENERAL SERVICES ADMINISTRATION (GSA).

* THAT IF THIS BUSINESS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEAR ON EITHER LISTING, MY BID WILL

VENDOR PHONE NUMBER: FAX NUMBER:	TITLE	DATE
SIGNATURE OF AUTHORIZED BIDDER (MUST BE SIGNED)	NAME OF BIDDER (TYPED OR PRINTED)	

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BE REJECTED.

* THAT IF AT ANY TIME DURING THE TERM OF THE CONTRACT AWARDED AS A RESULT OF THIS INVITATION TO BID, THIS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEARS ON EITHER LISTING, MY COMPANY WILL NOTIFY THE CONTRACTING AGENCY, AND THE CONTRACT WILL BE TERMINATED. THE CONTRACTING AGENCY WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM SAID TERMINATION.

THE BIDDER FURTHER CERTIFIES:

- * COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS, AND SPECIFICATIONS.
- * THIS BID IS MADE WITHOUT COLLUSION OR FRAUD.
- * THAT ALL TAXES DULY ASSESSED BY THE STATE OF LOUISIANA AND IT'S SUBDIVISIONS, INCLUDING FRANCHISE TAXES, PRIVILEGE TAXES, SALES TAXES AND ALL OTHER TAXES FOR WHICH THE FIRM IS LIABLE HAVE BEEN PAID.
- * THAT IF MY BID IS ACCEPTED WITHIN _____ DAYS FROM BID CLOSING TIME, MY FIRM WILL FURNISH ANY OR ALL OF THE ITEMS (OR SECTIONS) AT THE PRICE OPPOSITE EACH ITEM (OR SECTION).
- * DELIVERY WILL BE MADE WITHIN _____ DAYS AFTER RECEIPT OF ORDER.

6. DESIRED DELIVERY: 10 DAYS ARO, UNLESS SPECIFIED ELSEWHERE
7. TO ASSURE CONSIDERATION, ALL BIDS SHOULD BE SUBMITTED IN THE SPECIAL ENVELOPE, OR USE BID LABEL IF FURNISHED FOR THAT PURPOSE. IN THE EVENT YOUR BID CONTAINS BULKY SUBJECT MATERIAL, THE SPECIAL BID ENVELOPE SHOULD BE FIRMLY AFFIXED TO THE MAILING ENVELOPE.
8. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS; SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.

PROHIBITION OF DISCRIMINATORY BOYCOTTS OF ISRAEL:

IN ACCORDANCE WITH EXECUTIVE ORDER NUMBER JBE 2018-15, EFFECTIVE MAY 22, 2018, FOR ANY CONTRACT FOR \$100,000 OR MORE AND FOR ANY CONTRACTOR WITH FIVE OR MORE EMPLOYEES, CONTRACTOR, OR ANY SUBCONTRACTOR, SHALL CERTIFY IT IS NOT ENGAGING IN A BOYCOTT OF ISRAEL, AND SHALL, FOR THE DURATION OF THIS CONTRACT, REFRAIN FROM A BOYCOTT OF ISRAEL. THE STATE RESERVES THE RIGHT TO TERMINATE THIS CONTRACT IF THE CONTRACTOR, OR ANY SUBCONTRACTOR, ENGAGES IN A BOYCOTT OF ISRAEL DURING THE TERM OF THE CONTRACT.

9. IMPORTANT: THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR (SEE NO.31).
10. INQUIRIES: ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE BUYER AT THE PHONE NUMBER AND ADDRESS SHOWN ABOVE.
11. BID FORMS: ALL WRITTEN BIDS, UNLESS OTHERWISE PROVIDED FOR, SHOULD BE SUBMITTED ON, AND IN ACCORDANCE WITH FORMS PROVIDED, PROPERLY SIGNED (SEE #31). BIDS MUST BE RECEIVED AT THE ADDRESS SPECIFIED IN THE SOLICITATION PRIOR TO BID OPENING TIME IN ORDER TO BE CONSIDERED.
12. STANDARDS OR QUALITY. ANY PRODUCT OR SERVICE BID SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AND THE SPECIFICATIONS CONTAINED IN THE SOLICITATION. UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION, ANY MANUFACTURER'S NAME, TRADE NAME, BRAND NAME, OR CATALOG NUMBER USED IN THE SPECIFICATION IS FOR THE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE, AND CHARACTERISTICS DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. BIDDER MUST SPECIFY THE BRAND AND MODEL NUMBER OF THE PRODUCT OFFERED IN HIS/HER BID. BIDS NOT SPECIFYING BRAND AND MODEL NUMBER SHALL BE CONSIDERED AS OFFERING THE EXACT PRODUCTS SPECIFIED IN THE SOLICITATION.
13. DESCRIPTIVE INFORMATION. BIDDERS PROPOSING AN EQUIVALENT BRAND OR MODEL SHOULD SUBMIT WITH THE BID, INFORMATION (SUCH AS ILLUSTRATIONS, DESCRIPTIVE LITERATURE, TECHNICAL DATA) SUFFICIENT FOR LSUHSC TO EVALUATE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS IN THE SOLICITATION. FAILURE TO SUBMIT DESCRIPTIVE INFORMATION MAY CAUSE BID TO BE REJECTED. ANY CHANGE MADE TO A MANUFACTURER'S PUBLISHED

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BIDDER:

SPECIFICATION SUBMITTED FOR A PRODUCT SHALL BE VERIFIABLE BY THE MANUFACTURER. IF ITEM(S) BID DO NOT FULLY COMPLY WITH SPECIFICATIONS (INCLUDING BRAND AND/OR PRODUCT NUMBER), BIDDER MUST STATE IN WHAT RESPECT ITEMS(S) DEVIATE. FAILURE TO NOTE EXCEPTIONS ON THE BID FORM WILL NOT RELIEVE THE SUCCESSFUL BIDDER(S) FROM SUPPLYING THE ACTUAL PRODUCTS REQUESTED.

14. BID OPENING. BIDDERS MAY ATTEND THE BID OPENING, BUT NO INFORMATION OR OPINIONS CONCERNING THE ULTIMATE CONTRACT AWARD WILL BE GIVEN AT THE BID OPENING OR DURING THE EVALUATION PROCESS. BIDS MAY BE EXAMINED WITHIN 72 HOURS AFTER BID OPENING. INFORMATION PERTAINING TO COMPLETED FILES MAY BE SECURED BY VISITING LSUHSC DURING NORMAL WORKING HOURS. WRITTEN BID TABULATIONS WILL NOT BE FURNISHED.
15. AWARDS. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER. LSUHSC RESERVES THE RIGHT TO AWARD ITEMS SEPARATELY, GROUP, OR IN TOTAL, AND TO REJECT ANY OR ALL BIDS AND WAIVE ANY INFORMALITIES.
16. PRICES. UNLESS OTHERWISE SPECIFIED BY LSUHSC IN THE SOLICITATION, BID PRICES MUST BE COMPLETE, INCLUDING TRANSPORTATION PREPAID BY BIDDER TO DESTINATION AND FIRM FOR ACCEPTANCE FOR A MINIMUM OF 30 DAYS. IF ACCEPTED, PRICES MUST BE FIRM FOR THE CONTRACTUAL PERIOD. BIDS OTHER THAN F.O.B. DESTINATION MAY BE REJECTED. PRICES SHOULD BE QUOTED IN THE UNIT (EACH, BOX, CASE, ETC.) AS SPECIFIED IN THE SOLICITATION.
17. DELIVERIES. BIDS MAY BE REJECTED IF THE DELIVERY TIME INDICATED IS LONGER THAN THAT SPECIFIED IN THE SOLICITATION.
18. TAXES. VENDOR IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE TAXES IN THE BID PRICE. LSUHSC AGENCIES ARE EXEMPT FROM ALL STATE AND LOCAL SALES AND USE TAXES.
19. NEW PRODUCTS. UNLESS SPECIFICALLY CALLED FOR IN THE SOLICITATION, ALL PRODUCTS FOR PURCHASE MUST BE NEW, NEVER PREVIOUSLY USED, AND THE CURRENT MODEL AND/OR PACKAGING. NO REMANUFACTURED, DEMONSTRATOR, USED OR IRREGULAR PRODUCT WILL BE CONSIDERED FOR PURCHASE UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION. THE MANUFACTURER'S STANDARD WARRANTY WILL APPLY UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION.
20. CONTRACT CANCELLATION. THE STATE OF LOUISIANA HAS THE RIGHT TO CANCEL ANY CONTRACT, IN ACCORDANCE WITH PURCHASING RULES AND REGULATIONS, FOR CAUSE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - (1) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT;
 - (2) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION;
 - (3) MISREPRESENTATION BY THE CONTRACTOR;
 - (4) FRAUD, COLLUSION CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE;
 - (5) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW;
 - (6) ANY OTHER BREACH OF CONTRACT.
21. DEFAULT OF CONTRACT. FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE BID WILL CONSTITUTE A DEFAULT AND MAY CAUSE CANCELLATION OF THE CONTRACT. WHERE THE UNIVERSITY HAS DETERMINED THE CONTRACTOR TO BE IN DEFAULT, THE UNIVERSITY RESERVES THE RIGHT TO PURCHASE ANY OR ALL PRODUCTS OR SERVICES COVERED BY THE CONTRACT ON THE OPEN MARKET AND TO CHARGE THE CONTRACTOR WITH COST IN EXCESS OF THE CONTRACT PRICE. UNTIL SUCH ASSESSED CHARGES HAVE BEEN PAID, NO SUBSEQUENT BID FROM THE DEFAULTING CONTRACTOR WILL BE CONSIDERED.
22. ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPECIAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.
23. APPLICABLE LAW. ALL CONTRACTS SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.
24. EQUAL OPPORTUNITY. BY SUBMITTING AND SIGNING THIS BID, BIDDER AGREES THAT HE/SHE WILL NOT DISCRIMINATE IN THE RENDERING OF SERVICES TO AND/OR EMPLOYMENT OF INDIVIDUALS BECAUSE OF RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, AGE, NATIONAL ORIGIN, HANDICAP, DISABILITY, VETERAN STATUS, OR ANY OTHER NON-MERIT FACTOR.
25. SPECIAL ACCOMMODATIONS. ANY "QUALIFIED INDIVIDUAL WITH DISABILITY" AS DEFINED BY THE AMERICANS WITH

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BIDDER:

- DISABILITIES ACT WHO HAS SUBMITTED A BID AND DESIRES TO ATTEND THE BID OPENING, MUST NOTIFY THIS OFFICE IN WRITING NOT LATER THAN SEVEN DAYS PRIOR TO THE BID OPENING DATE OF THEIR NEED FOR SPECIAL ACCOMMODATIONS. IF THE REQUEST CANNOT BE REASONABLY PROVIDED, THE INDIVIDUAL WILL BE INFORMED PRIOR TO THE BID OPENING.
26. IDENMNITY. CONTRACTOR AGREES, UPON RECEIPT OF WRITTEN NOTICE OF A CLAIM OR ACTION, TO DEFEND THE CLAIM OR ACTION, OR TAKE OTHER APPROPRIATE MEASURE, TO IDEMNIFY, AND HOLD HARMLESS, LSUHSC, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES FROM AND AGAINST ALL CLAIMS AND ACTIONS FOR BODILY INJURY, DEATH OR PROPERTY DAMAGES CAUSED BY THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. CONTRACTOR IS OBLIGATED TO INDEMNIFY ONLY TO THE EXTENT OF THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. HOWEVER, THE CONTRACTOR SHALL HAVE NO OBLIGATION AS SET FORTH ABOVE WITH RESPECT TO ANY CLAIM OR ACTION FROM BODILY INJURY, DEATH OR PROPERTY DAMAGES ARISING OUT OF THE FAULT OF THE UNIVERSITY, ITS OFFICERS, ITS AGENTS OR ITS EMPLOYEES.
27. INTERPRETATION OF DOCUMENT: ANY INTERPRETATION OF THE BID OR QUOTATION DOCUMENT WILL ONLY BE MADE BY AN ADDENDUM ISSUED IN WRITING BY THE PURCHASING DEPARTMENT. SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF THE ORIGINAL BID OR QUOTATION DOCUMENTS. LSUHSC WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATION OR INTERPRETATION OF THE DOCUMENTS.
28. ACCEPTANCE OF BID: ONLY THE ISSUANCE OF A PURCHASE ORDER OR A SIGNED CONTRACT CONSTITUTES ACCEPTANCE ON THE PART OF LSUHSC.
29. ADHERENCE TO JCAHO STANDARDS: WHERE APPLICABLE, LSUHSC IS ACCREDITED BY THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS AND AS SUCH ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS AGREE TO ADHERE TO THE APPLICABLE STANDARDS PROMULGATED BY THE COMMISSION.
30. PREFERENCE: IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1595, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY.
DO YOU CLAIM THIS PREFERENCE? YES _____ NO _____
SPECIFY THE LINE NUMBER (S) _____
SPECIFY LOCATION WITHIN LOUISIANA WHERE THIS PRODUCT IS MANUFACTURED, PRODUCED, GROWN OR ASSEMBLED _____
(NOTE: IF MORE SPACE IS REQUIRED, INCLUDE ON SEPARATE SHEET.)
DO YOU HAVE A LOUISIANA BUSINESS WORK FORCE? YES _____ NO _____
IF SO, DO YOU CERTIFY THAT AT LEAST FIFTY PERCENT (50%) OF YOUR LOUISIANA WORKFORCE IS COMPRISED OF LOUISIANA RESIDENTS?
YES _____ NO _____
FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES.
PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.
31. SIGNATURE AUTHORITY. IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:
- 31.1. A CURRENT CORPORATE OFFICER, PARTNERSHIP MEMBER OR OTHER INDIVIDUAL SPECIFICALLY AUTHORIZED TO SUBMIT A BID AS REFLECTED IN THE APPROPRIATE RECORDS ON FILE WITH THE SECRETARY OF STATE;
OR
- 31.2. AN INDIVIDUAL AUTHORIZED TO BIND THE VENDOR AS REFLECTED BY AN ACCOMPANYING CORPORATE RESOLUTION, CERTIFICATE OR AFFIDAVIT;
OR
- 31.3. AN INDIVIDUAL LISTED ON THE STATE OF LOUISIANA BIDDER'S APPLICATION AS AUTHORIZED TO EXECUTE BIDS.
BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH THE ABOVE.
32. AUDIT OF RECORDS: THE STATE LEGISLATIVE AUDITOR, FEDERAL AUDITORS, AND INTERNAL AUDITORS OF THE STATE SHALL HAVE THE RIGHT TO INSPECT AND AUDIT ALL TIMEKEEPING AND EXPENSE RECORDS OF THE CONTRACTING ENTITY OR ANY SUBCONTRACTOR OF THE CONTRACTING ENTITY TO SUBSTANTIATE AMOUNTS INVOICED BY SUPPLIER WITH RESPECT TO THIS

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<p>AGREEMENT. THE RIGHTS OF INSPECTION AND AUDIT SHALL COMMENCE AS OF THE DATE OF THIS AGREEMENT AND SHALL CONTINUE FOR A PERIOD OF FIVE (5) YEARS AFTER PROJECT ACCEPTANCE OR AS REQUIRED BY APPLICABLE STATE AND FEDERAL LAW. THE CONTRACTING ENTITY AND ANY SUBCONTRACTOR OF THE CONTRACTING ENTITY SHALL MAINTAIN ALL TIMEKEEPING AND EXPENSE RECORDS RELATED TO THIS AGREEMENT FOR THE ENUMERATED FIVE (5) YEAR PERIOD.</p>	

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PRICE SHEET

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BIDDER:

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UNLESS SPECIFIED ELSEWHERE SHIP TO:

Line No.	Description	Qty	UOM	Unit Price	Extended Amount
1	Bid for Supercomputer: contract for supplying a supercomputer cluster for the Dept of Psychiatry, LSUHSC-S. Items to be shipped to the IT Dept. Includes minimum specs for server, cabinet, software, accessories, support service, installation and testing. Specify brand, model bid(if applicable)	1.00	EA		
2	1U EPYC Servers Specify brand, model bid(if applicable)	2.00	EA		
3	NVIDIA DGX A100 System (Academic) Specify brand, model bid(if applicable)	1.00	EA		
4	Installation and configuration of SLURM-based DGX POD software stack SLURM orchestration with Open OnDemand user interface NVIDIA NGC GPU Specify brand, model bid(if applicable)	1.00	EA		
5	DDN EXAscaler 7990X Appliance (or equivalent) Specify brand, model bid(if applicable)	1.00	EA		
6	Mellanox 40-Port HDR 200Gb/s Externally Managed Quantum InfiniBank Switch (1U) Specify brand, model bid(if applicable)	1.00	EA		
7	Netgear 52-Port (176Gbps) 100/1000 Stackable L3 Manager Switch	1.00	EA		

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UNLESS SPECIFIED ELSEWHERE SHIP TO:

Line No.	Description	Qty	UOM	Unit Price	Extended Amount
	(M4300-52G) Specify brand, model bid(if applicable) _____				
8	42U Rackmount Cabinet Specify brand, model bid(if applicable) _____	1.00	EA		
9	Full Cluster Pre-Integration Service Specify brand, model bid(if applicable) _____	1.00	EA		
10	Company to provide the following testing procedure for all integrated systems Specify brand, model bid(if applicable) _____	1.00	EA		
11	Company to provide lifetime technical support Specify brand, model bid(if applicable) _____	1.00	EA		
12	Additional items to be included Specify brand, model bid(if applicable) _____	1.00	EA		

SCOPE OF BID

The purpose of this bid is to establish a contract for supplying a supercomputer cluster for the Department of Psychiatry at LSUHSC-S. Items must be shipped directly to the department.

The intent of this bid is to establish the proposed specifications for the equipment, including minimum specs for server, cabinet, software, accessories, support service, installation and testing.

TERMS OF THE CONTRACT

Any maintenance contract shall be effective from the date of installation for a period of twelve (12) months, and at the option of LSUHSC-S and acceptance by the vendor, can be renewed for two (2) additional twelve-month periods at the same prices and terms.

All prices are to be firm for the contractual period; but wherever there is a general reduction in price, which is lower than the contract price, said reduction must be presented directly to LSUHSC-S.

REQUIREMENTS

The attached list of specifications represents the style or equivalent needed to accommodate the Department's needs. Successful bidder must be able to meet the specifics required or explain how a different product could satisfy the bid request.

This bid shall be awarded on the basis of low bid for all products, accessories, installations, and testing plus any additional charges submitted by the bidder.

SUPERCOMPUTER CLUSTER SPECIFICATIONS

1. 1U EPYC Servers, each with the following:

1U EPYC Servers, each with
AMD EPYC 7002 series processor, 16-core or greater
128 GB DDR4 3200 RAM minimum
2x 1TB SSD HDD
Software RAID1 (Linux based)
Rackmount Rail Kit for each server
Mellanox ConnectX-6 VPI Network Adapter
 Dual-Port QSFP56 HCA
 HDR InfiniBand (200Gb/s)
Mellanox 200Gbps HDR InfiniBand Cable
Software:
Server Out-of-Band (OOB) Update Management Software (SUM)
Ubuntu Linux distribution 20.04 LTS (or to match DGX distro)
Cluster Management Software
Open OnDemand
OpenMPI
SLURM Workload Manager
GNU Compilers
All software to be installed and configured.

Quantity: 2

\$ _____

2. NVIDIA DGX A100 System (academic):

QTY: 8 - NVIDIA A100 40GB "Ampere" GPU accelerators
NVSwitch provides full 600GB/s NVLink connectivity between all GPUs
QTY: 2 AMD EPYC 7742 64-core CPUs
2TB Total DDR4 System Memory
QTY: 2 - 1.92TB M.2 NVMe SSDs for Operating System
QTY: 4 - 3.84TB PCI-E gen4 NVMe SSDs as Local Storage
QTY: 8 - Mellanox ConnectX-6 QSFP28 200Gbps HDR InfiniBand/200GigE adapters
 Dual QSFP28 Ethernet ports via ConnectX-6 adapter
Software: Ubuntu Linux Server Host OS
Hot-Swap, Redundant Power Supply Modules (N+N); Power Consumption: 6,500W at full load
Support Services for NVIDIA DGX A100 System (3-Year Academic)
 Includes DGX Software, Driver and Firmware Updates
 Remote Installation and Update Services for NVIDIA DGX A100 AI System
Server lift for DGX A100 installation

Quantity: 1

\$ _____

3. Installation and configuration of SLURM-based DGX POD software stack SLURM orchestration with Open OnDemand user interface NVIDIA NGC GPU to include:

- Deep learning framework (TensorFlow)
- Interactive Jupyter
- NVIDIA CUDA 11.x compiler installed and configured for use across the cluster
- HPC SDK Compiler installed and configured for use across the cluster
- Company to ensure DGX POD configuration meets the requirements of users
- The cluster will be required to be delivered fully integrated and ready-to-run.

Quantity: 1 \$ _____

4. DDN EXAscaler 7990X Appliance (or equivalent):

- 6.8TiB addressable NVMe flash
- 288 TB addressable HDD minimum
- All power cables
- Includes rack mount kit
- Includes Lustre-based parallel file system
- Full hardware and software support 3 years.

Quantity: 1 \$ _____

5. Mellanox 40-Port HDR 200Gb/s Externally Managed Quantum InfiniBank Switch (1U):

- Fully-connected High-Speed 200Gb/s Fabric
- In-network computing through SHARP co-design technology
- 40 front-mounted QSFP56 ports
- Non-Blocking Switch Capacity of 16Tb/s
- Sub-130ns switch latency
- Redundant, Hot-Swap Power Supplies and Fans
- P2C (Connector Side Outlet) Airflow, Standard depth, Rail Kit

Quantity: 1 \$ _____

6. **Netgear 52-Port (176Gbps) 100/1000 Stackable L3 Manager Switch (M4300-52G):**

Specification: For Management Network
(48) 100/1000 Mbps ports
(2) 10GBase-T and (2) SFP+ 10G Ethernet ports
Lifetime hardware warranty
Redundant Power Supply Module

Quantity: 1

\$ _____

7. **42U Rackmount Cabinet:**

Power Distribution type
APC NetShelter SX 42U Extra Wide/Deep Enclosure with Shock Packaging (or equivalent)
Standard 19" Rackmount Cabinet (up to 41" mounting depth)
Includes casters, perforated doors and solid side panels, casters, leveling feet, locks on front and rear door, adjustable mounting channels
Includes cabling for all integrated components
APC AP8867 Zero U, Metered Rack PDU 2G (208V 3PH 17.2kW)
Input (208V 3PH): IEC 309 60A 3P+PE on 6 Foot Cord
Output: 30x IEC 320 C13
Provides real-time remote load monitoring and alerts.
1U 19" Black Modular Airflow Management Blanking Panels (to spec)

Quantity: 1

\$ _____

8. **Full Cluster Pre-Integration Service:**

Company to provide integration team to determine the layout of the cluster
Rackmount rails installed into rackmount cabinets
Servers, switches and other equipment racked and mounted in cabinets
Network and power cables all included, routed and tied in place
PDUs mounted and power cables connected
Includes delivery of integrated racks
Company will provide remote installation assistance.

Quantity: 1

\$ _____

9. Company to provide the following testing procedure for all integrated systems:

Low-level memory tests for 12+ hours

Operating systems are loaded and Linux stress tests are executed for 24+ hours to include tests of processor, memory, and GPU-intensive applications

File system-intensive application testing to ensure storage and parallel file system reliability.

Cluster utilities, libraries, containers, and applications are installed and configured and tested, cluster network and DGX systems are configured for optimal latency/throughput, and cluster applications are executed for 48+ hours.

Quantity: 1

\$ _____

Company to provide lifetime technical support.

Additional proposals and/or costs: