

Approved by the Board of Trustees
July 22, 2010

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Board Meeting
July 22, 2010

ROLL CALL

PURCHASE RECOMMENDATIONS

The "Purchase Recommendations" are presented by campus and a Summary from "Appropriated Funds" (i.e., from State appropriations to the University) and from "Institutional Funds" is included. The latter term is used here to designate funds received by the University under contracts with the United States Government; contracts with private corporations and other organizations, from foundation grants, and grants from corporations and other donors; and University revolving funds authorized by law. The Summary also indicates a total amount by campus.

The board action recommended in this item complies in all material respects with applicable State and federal laws, University of Illinois Statutes, The General Rules Concerning University Organization and Procedure, and Board of Trustees policies and directives.

The Directors of Purchases have proposed and the Vice President, Chief Financial Officer recommends the following purchases. Unless otherwise specified, the purchase in each case is recommended on the basis of the lowest acceptable bid.

The President of the University concurs.

PURCHASES RECOMMENDED

Urbana-Champaign Campus

1	Unit	National Center for Supercomputing Applications (NCSA)
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Item	Hardware and software for a Linux cluster with a peak performance in excess of 300TF utilizing NVIDIA 6MB Fermi GPUs, with the option to renew maintenance and support for three additional one year periods. All renewals are subject to continuing need, availability of funds and satisfactory performance.
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Cost \$3,600,000 (estimated)

Renewal Options:

July 1, 2011 to June 30, 2012	\$250,000 est.
July 1, 2012 to June 30, 2013	\$250,000 est.
July 1, 2013 to June 30, 2014	\$250,000 est.

Vendor Hewlett-Packard Company (HP), Chicago, IL

Competitive selection procedures were followed in accordance with the Illinois Procurement Code. Two vendors submitted responses. One vendor was deemed non-responsive.

This purchase recommendation is requesting hardware and software for a Linux cluster with a peak performance in excess of 300TF utilizing NVIDIA 6MB Fermi Graphics Processing Units (GPUs). GPUs have shown great potential to significantly impact scientific research through their ability to provide considerable acceleration of computationally intensive scientific applications. By delivering multiple teraflops of computing power in a single chip, this technology is driving a major paradigm shift in high performance computing from traditional sequential execution on scalar microprocessors to highly concurrent computing that will accelerate computation speeds and eventually pave a viable path toward exascale computing. The anticipated exascale systems will be able to handle a million trillion calculations per second. The cluster will also have a General Parallel File System (GPFS) with a minimum of 1.5PB of storage space and 24GB/sec of I/O bandwidth.

The cluster will be used to support large scale long-term applications.

HP has offered three additional one year options for maintenance and support. The exact pricing for each option period will be negotiated at the time of each renewal.

Chicago Campus

2 Units University of Illinois Medical Center at Chicago (UIMCC) and Department of Neurosurgery

Item Gamma Knife Stereotactic Radiosurgery instrument

Cost \$4,600,000

Vendor Elekta Capital, Wayne, PA

This purchase is a sole source because the item is patented and Elekta is the only manufacturer and distributor.

The Gamma Knife and other radiosurgery methods are often the preferred means of treating brain disorders without the need for invasive surgery. This is the only Stereotactic Radiosurgery (SRS) instrument available that generates gamma rays, utilizing 201 Cobalt-60 sources, which deliver a level of radiation that is not available from any other manufacturer. The Gamma Knife SRS provides a precise beam of high level radiation to treat inoperable brain tumors, AVM's (Arteriovenous Malformations) and other functional brain disorders. The ability to deliver a precise beam of radiation to the target area means that the surrounding healthy tissue receives minimal spillover radiation as the result of the therapy. In addition, the treatment can usually be completed in one session due to the strength and precision of the beam, which saves time, increases operational efficiency and improves patient care.

The instrument will be used in the Department of Neurosurgery to treat patients with intracranial tumors, as well as, certain specific neurological disorders originating from the cranial cavity.

The University will receive a discount of 10% off the list price for this equipment.

3 Unit	University of Illinois Medical Center at Chicago (UIMCC), Hospital Administration
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Item	Perioperative consulting services and supervision of surgical services for the Medical Center for the period August 1, 2010 through July 31, 2011, with the option to renew for two additional one year periods. All renewals are subject to continuing need, availability of funds and satisfactory performance.
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Cost	\$2,507,436 (estimated)
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Renewal Options:

August 1, 2011 to July 31, 2012	\$ 1,557,000 est.
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August 1, 2012 to July 31, 2013	\$ 1,163,000 est.
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Vendor Sullivan Healthcare Consulting, Ann Arbor, MI

<u>Proposals Received</u>	<u>Point Summary of Proposals</u> (Maximum Score of 4,425)
Sullivan Healthcare Consulting, Ann Arbor, MI	3,248
Sullivan Lakier Group, Poway, CA	2,851
Surgical Directions, Chicago, IL	2,673
Soyring Consulting, St. Petersburg, FL	2,516
Navigant Consulting, Chicago, IL	1,754

Competitive selection procedures were followed in accordance with the Illinois Procurement Code.

The Medical Center seeks the expertise of consultants to fulfill the following objectives: (a) assess current operations; (b) lead process redesign and implementation of a new management model; (c) establish departmental and Medical Center policies and procedures documenting new process redesign; (d) drive systems changes; (e) establish service levels and identify performance metrics to sustain service levels; (f) enhance existing information systems to develop more efficient methods; (g) develop staff training and competency assessments; (h) retrain staff and educate staff about new processes; (i) redefine staff roles and responsibilities; (j) assist in the recruitment of key management positions as needed; (k) consolidate sterilization services to optimize capital and human resources; and (l) manage the implementation of all recommendations as noted above. The plan for implementation may take up to two fiscal years to complete. In addition, the evaluation committee decided to plan for a ready stream of resources into the third fiscal year, based on best practices.

The perioperative period begins when the patient is transferred to the operating room bed and ends when the patient is transferred to the post anesthesia care unit (PACU). During this period the patient is monitored, anesthetized, prepped, and draped, and the operation is performed. Nursing activities during this period focus on safety, infection prevention, and physiological response to anesthesia.

Under this contract, the consultant will provide leadership support to the perioperative services team, which includes staff from inpatient and outpatient operating service units and the recovery rooms. Sullivan Healthcare will provide a Best Practice Analysis in FY11, which will not exceed \$151,356. As part of implementation and assistance, Sullivan Healthcare will provide one dedicated project manager for up to three years and five dedicated consultants for up to two years, on an as needed basis.

SUMMARY OF PURCHASES	
(Rounded to nearest dollar)	
Urbana-Champaign Campus	\$ 3,600,000
Chicago Campus	\$ 7,107,436
Recommended from Institutional Funds	
Grand Total	\$10,707,436