Approved by the Board of Trustees

July 20, 2023

**36**

Board Meeting

July 20, 2023

ROLL CALL

PURCHASE RECOMMENDATIONS

Following are purchase recommendations proposed by each University and the System Office. The purchases are to be funded from State appropriations or institutional funds as appropriate. Purchases are based on the lowest acceptable bid unless otherwise specified or indicated. The vice president, chief financial officer/comptroller has approved all purchases to be funded from State appropriations in accordance with the *Bylaws of the Board of Trustees* and the *General Rules Concerning University Organization and Procedure.*

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 president of the University of Illinois System concurs.

**PURCHASES RECOMMENDED**

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| **University of Illinois at Chicago** |

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| 1 | Unit | Office of Vice Chancellor for Administrative Services |
|  | Item  | Service Contract for Gas Turbines 1, 2, and 3 for the period October 1, 2023 through September 30, 2028. |
|   | Cost | $ 22,500,000 (estimated)  |
|  | Vendor | Solar Turbines, Inc.; San Diego, CA   |
|  |  | This purchase is a sole source procurement in accordance with Illinois Procurement Code 30 ILCS 500/20-25 because the unique items are required for Gas Turbines 1, 2, and 3, and no other source can meet the documented need.1. In June 1998, the BOT approved a $35 million project to construct a Steam Plant Cogeneration Addition to the existing facility on the west side of the Chicago Campus, including purchasing (2) solar turbines (patented equipment) from Solar Turbines, Inc. The University entered into a Purchase Agreement (Contract #80798) effective April 29, 1999, with Solar Turbines, Inc. for $10,025,211.00.
2. The 3rd solar gas turbine was purchased in December 2010 for $711,501.00 under emergency purchase #988RPP.
3. Continuing maintenance and support are required for the (3) Solar Gas Turbines installed at West Steam Plant UIC. Without a maintenance contract in place, we will be unable to operate the gas turbines in the event of a failure. This would lead to significant downtime of the gas turbines and could lead to increased costs and decreased energy reliability to the campus.
4. The historical spend for maintenance is $30,308,909 since February 2002, procured from Solar through various Sole Source purchases.
5. The contract to be awarded as a result of this purchase is comprehensive and includes engine replacement when required.
6. The provider of these services must be the original equipment manufacturer (OEM). The field service representative has access to all OEM-controlled proprietary engineering design drawings, control specifications, and all product updates and safety enhancements to inspect and troubleshoot turbine and generator problems. This includes all the prescribed preventative maintenance activities that must be completed to maintain the manufacturer’s warranty on the machine.
7. OEM parts are needed for system compatibility and functionality. Additionally, non-OEM support technicians do not have access to detailed proprietary drawings to verify tolerances and configuration of the system.
8. The price was negotiated with Solar for this work, and the pricing that they have provided for the scope is reasonable based on our experience in the energy generation business. In addition, the contract negotiations included UIUC for economies of scale, but each university will pay separately.

As a sole source procurement, BEP Goals are not established. However, the vendor has indicated that it does have a Supplier Diversity Participation Program. |
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| **University of Illinois at Urbana-Champaign** |

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| 2 | Unit | Beckman Institute for Advanced Science and Technology |
|  | Item  | BI TIMS TOF flex w/ MALDI-2 Mass Spectrometer  |
|   | Cost | $ 1,259,234 (estimated) One-time purchase |
|  | Vendor | Bruker Scientific, LLC; Billercia, MA   |
|  |  | This purchase is a sole source because the funding source requires the items.Beckman Institute for Advanced Science and Technology submitted an NIH High-End Instrumentation (HEI) Grant Program proposal requesting a trapped ion mobility spectrometry (TIMS) time-of-flight (TOF) matrix-assisted laser desorption/ionization (MALDI) mass spectrometer to enable the research of 15 users, both at UIUC and collaborating institutions, representing 19 NIH -funded efforts (including three center grants). The funds to purchase this specific instrument were awarded effective March 1, 2023. The BI TIMS TOF flex w/ MALDI-2 Mass Spectrometer will perform single-cell measurements and mass spectrometry imaging of tissues as the amount of material present in a cell is in the zeptomole to attomole range, the most sensitive instrument available is required; the combination of ion mobility and the MALDI-2 post-ionization becomes enabling for Beckman’s application.**Business Enterprise Program (BEP)** goals are not established as the terms of the Notice of Grant Award from NIH. This is the approved instrument and alternates are not allowed. |
| 3 | Unit | Aerospace Engineering  |
|  | Item  | DURIP Large High Vacuum Facility  |
|   | Cost | $1,399,518 (estimated) One-time purchase. |
|  | Vendor | Leybold USA, Inc.; Export, PA |
|  |  | Sole Source procurement procedures were followed in accordance with the Illinois Procurement Code, 30 ILCS 500/20-25.This purchase is considered a sole source because items are required for research, and no other source can meet the researcher’s documented need.Aerospace Engineering won a Department of Defense University Research Instrumentation Program (DURIP) grant to expand research and testing capabilities for space simulation. The equipment is a high vacuum facility that enables the facility to be evacuated from the atmosphere to a base pressure below 1x10-7 Torr. The new equipment/facility leverages existing equipment & infrastructure from the same vendor that will be integrated with this new facility. Existing parts from previously purchased equipment/facility will reduce costs by over $100,000.**Business Enterprise Program (BEP)** goals are not established as there are no other sources able to meet the need.  |
| 4 | Unit | Institute for Genomic Biology |
|  | Item  | Growth Chamber Facility for CABBI Greenhouse |
|   | Cost | $ 2,200,000 (estimated) One-time purchase |
|  | Vendor | Controlled Environments, Inc dba Conviron; Pembina, ND |
|  |  | Sole Source procurement procedures were followed in accordance with the Illinois Procurement Code, 30 ILCS 500/20-25.This purchase is considered a sole source because the compatibility of equipment, accessories, and replacement parts is necessary to continue research.The Carl R. Woese Institute of Genomic Biology is home to the Center for Advanced Bioenergy and Bioproducts Innovation (CABBI), a Department of Energy (DOE) funded Bioenergy Research Center led by UIUC. CABBI researchers need to study the performance of C4 grasses and plant-microbe interactions using experimental designs that can only be achieved in controlled environment chambers. The growth chambers required allow the growth of the tall perennial grasses that are the subject of the CABBI project. In addition, the growth chambers provide the environmental conditions (e.g., very high light intensities at high temperatures) needed to support the growth of these crops. This equipment is necessary to fulfill the DOE-approved CABBI research objectives.**Business Enterprise Program (BEP)** goals are not established as no other sources can meet the need. |
| 5 | Unit | Institute for Genomic Biology |
|  | Item  | Plant Phenotyping Equipment for CABBI  |
|   | Cost | $ 1,100,000 (estimated) One-time purchase |
|  | Vendor | Plant DiTech, Ltd.; Granite, Israel |
|  |  | Sole Source procurement procedures were followed in accordance with the Illinois Procurement Code, 30 ILCS 500/20-25.This purchase is considered a sole source because items are copyrighted or patented and are not available except from the copyright holder or patent holder.The Carl R. Woese Institute of Genomic Biology is home to the Center for Advanced Bioenergy and Bioproducts Innovation (CABBI), a Department of Energy (DOE) funded Bioenergy Research Center led by UIUC. CABBI researchers need to study water use efficiency and other critical physiological properties of C4 grasses by testing the whole plant (root and shoot) and comparing multiple plants continuously and simultaneously under the same environmental conditions. CABBI requires a system capable of measuring and collecting such data in a high-throughput fashion. In addition, CABBI needs a system that quantitatively compares plants’ response to various treatments and precisely predicts plant growth and productivity in an efficient, easy-to-use, and non-invasive manner. This equipment is necessary to fulfill the DOE-approved CABBI research objectives. The funding agency explicitly approved acquiring this equipment as part of the budgeting process.**Business Enterprise Program (BEP)** goals are not established as no other sources can meet the need.  |

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|  |  |  **CHANGE ORDER RECOMMENDED** |

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| **University of Illinois at System Office** |

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| 6 | Unit | Discovery Partners Institute (DPI) |
|  | Item | Change Order to increase the award amount for wastewater sequencing for the period July 27, 2021, through May 31, 2024.  |
|  | Cost | $1,690,946 Estimated |
|  | Vendor | UChicago Argonne LLC; Lemont, IL |
|  |  | Exempt from competitive selection procedures in accordance with the Illinois Procurement Code (30 ILCS 500 / 1-13(b)(8)).UChicago Argonne LLC was previously contracted to provide wastewater sequencing; additional sequencing services are needed. UChicago Argonne LLC operates the Argonne National Laboratory for the United States Department of Energy. These services are being paid through funds provided by the Illinois Department of Public Health (IDPH) through an inter-governmental agreement for wastewater testing services.**Business Enterprise Program (BEP)** goals are not established for contracts exempt from the IL Procurement Code requirements. |
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| **SUMMARY OF PURCHASES** |
| University of Illinois at Chicago | $22,500,000 |
| University of Illinois at Urbana-Champaign | $ 5,958,752 |
| Recommended from Institutional FundsGrand Total | $28,459,752  |
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| **SUMMARY OF CHANGE ORDERS** |  |
| University of Illinois at System Office | $ 1,690,946 |
| Recommended from Institutional FundsGrand Total | $ 1,690,946 |