



UNIVERSITY OF NEBRASKA-LINCOLN COLLEGE OF ENGINEERING



RESEARCH SUPPORT TASK FORCE

FINAL REPORT
March 7, 2018

TASK FORCE MEMBERS

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OVERVIEW

The Research Support Task Force was charged with describing the current and future needs of COE faculty, staff, and students engaged in research for support from core/shared facilities. The scope includes mechanical shop, electrical shop, IT support for research, core facilities and physical infrastructure (not including space considerations).

The deliverables are: A plan for performing an assessment throughout the college of our research support needs and how they are currently met. This assessment will inform consideration of COE resources.

The committee analyzed data, collected input from faculty, and discussed several options with respect to the committee charge. Data are included in Appendices A (Core Facility Usage), B (Equipment Listing), C (Centralized Shop Statistics), and D (Example Web-site Analytics).

This work led to the following recommendations (no priority order):

STATUS AND RECOMMENDATIONS

Core Facilities

Status: Currently, there is no written description or policy that details the college or departmental commitments to core facilities. These commitments are necessary in order for cores to receive funding from ORED and the Nebraska Research Initiative. Faculty currently receive a subsidized rate for usage of facilities because of the external NRI support. A document describing basic support is important with respect to the long-term stability of core facilities.

Recommendation: The committee recommends that the dean, in conjunction with department chairs, establish a consistent policy of support based on usage and impact of each core with respect to the COE research mission. Example data are provided in Appendix A for the Nano-Engineering Research Core Facility, the Nebraska Water Center, and the Holland Computing Center. Usage and impact should be evaluated based on a three-year rolling average of metrics (on a total and per faculty basis) that includes users, user department, usage hours, number of students trained, number of active research groups, number of papers with core acknowledgement, and number of proposals submitted/funded that include core usage. Support for cores that have primary sponsors in other units, such as those in the Biotechnology Center, may also be appropriate depending on the level of usage by COE faculty, staff, and students.

Start-up Equipment

Status: Currently, there is no written policy with respect to large equipment purchases that are made by new faculty as part of his/her start-up package. Such equipment should be viewed as a resource of the entire university community and steps should be taken to ensure that all equipment is accessible to all within research laboratory constraints. In addition, future maintenance costs require advance planning with respect to such purchases.

Recommendation: The committee recommends that the dean, in conjunction with department chairs, establish a policy for high-dollar equipment purchased as part of start-up funds with core facilities and wide-spread usage in mind. Factors to consider include the equipment cost, ongoing maintenance costs, usage interest, usage needs of the requesting faculty member, and alignment of equipment with core facility goals. In addition, a clear plan of usage credit for new faculty, including the number of hours and years of duration, should be recorded when new equipment is purchased. For example, Dr. Who requests an X-ray microscope as part of her start up. The microscope will be managed by a core facility, but the microscope may reside in Dr. Who's laboratory space (if agreed upon). Dr. Who's offer letter includes details of the funds to be made available for the instrument purchase as well as a credit of 300 hours/year for the first three years of her appointment. The offer letter would also clarify the need for Dr. Who to secure external funds to support ongoing instrument use. Partial support for an instrument operator based in Dr. Who's laboratory would be outlined if sufficient usage is documented.

Equipment Database

Status: Currently, there is no database of equipment residing within the college. Because all equipment is a resource for the entire university community, it is critical that faculty, staff and students can find necessary instruments to assist the COE research mission.

Recommendation: The committee recommends that a web-based searchable database tool be created (possibly as a computer science senior design project or UCARE project) that integrates inventory information available within SAP. Output from searches should include the make, model, and year of each instrument, its location and faculty point of contact, a photo, and a brief description of its use. The database design should also include a method by which new equipment can be added easily by staff after such purchases are made. The committee recommends that a single COE department be used for the initial tool development with expansion to all departments to follow after testing is completed.

Software

Status: The college currently has no clearly defined policy for purchasing software licenses for researchers or core facilities. Thus, this expense is often borne entirely by the individual PI using grant or other funding. At the other extreme, the university provides a site license such as the current case with Matlab. More expensive software licenses such as those for Comsol or Abaqus have at times been purchased individually or by groups of researchers at a total price that is most likely higher than if a joint purchase were made. However, aggregate purchase arrangements can be complicated. The Holland Computing Center, for instance, purchases software that is clearly of broad use with central core funds (e.g., compilers) but otherwise leaves the costs of licenses to the discretion of the individual researcher.

Recommendation: A college-wide policy should be formed, with perhaps a board to decide in which licenses the college should invest. A voluntary joint purchasing option may prove economical and efficient given sufficient communication within the college.

Centralized Shop Support

Status: Currently, the Electronics Shop and Engineering Machine Shop provide centralized support for all departments within COE. These services include both research and teaching aspects but it is not clear if changes within COE during the last two decades are reflected in the organization and management of these facilities. Example work-load distribution information, shown in Appendix C, provides the context for discussions regarding current staffing needs. The integration of new technology (e.g., 3D printers) and hiring plans due to staff turnover through retirement cannot be made effectively without a clear picture of the current status and COE future needs.

Recommendation: The committee recommends that COE examine the departmental research and teaching needs relative to the services provided by the Electronics Shop and Engineering Machine Shop. These reviews should consider current needs as well as projected needs for the next three years. The review should also include a plan for evaluation of personnel and services based on usage statistics with respect to departments. A funding plan should then be developed that accounts for the appropriate split of services. The plan should be reviewed annually based on a three-year rolling average of available data that includes user department, usage hours, student project hours, research/teaching split, and specific equipment usage.

Research Group Websites

Status: Currently, websites that are organized for research groups are difficult to develop and maintain over time. Because web-based content serves as the entry point for potential students and research partners, investment in web content is important for the COE research mission. Also, current analytical tools that can assist with the optimization of website hits are not used effectively to reach target audiences nor to identify changes that could be made to improve research growth.

Recommendation: The committee recommends that the college establish a marketing-based approach to assist faculty with web content and to market their research to external constituents including funding agencies and potential students. COE communications staff could provide feedback to chairs and faculty with specific recommendations for improvement. Faculty should be encouraged to update web content at least once per year, possibly as part of the annual evaluation process. In addition, analysis tools should be used to provide data to faculty regarding hits to their content with advice to improve visibility.

APPENDIX

Appendix A: Usage Data from Core Facilities

Nano-Engineering Research Core Facility

Table A1. Nanoengineering Research Core Facility internal user service fee recovery distribution for the 2017 Calendar Year;

| | Total = \$113,111 |
|--------------------------------------|--------------------------|
| Mechanical and Materials Engineering | 63.30% |
| Electrical and Computer Engineering | 16.39% |
| Physics and Astronomy | 8.37% |
| Chemical Biomolecular Engineering | 4.96% |
| Chemistry | 3.06% |
| Civil Engineering | 2.28% |
| Pharmaceutical Sciences, UNMC | 0.60% |
| Surgery, UNMC | 0.42% |
| Biological Systems Engineering | 0.31% |
| Nebraska Nanoscale Facility | 0.19% |
| Anthropology | 0.11% |

Nebraska Water Center

Table A2. Nebraska Water Center usage information for fiscal year 2016-2017.

| FY 2016-2017 Classification | Number Samples | Potential Income | Actual Income | WSL Discount Cost | 2016-17 Total Samples |
|--|----------------|---------------------|---------------------|--------------------|-----------------------|
| College of Arts and Sciences | 105 | \$3,555.00 | \$2,929.00 | \$626.00 | 1.9% |
| College of Engineering | 542 | \$46,247.00 | \$30,846.10 | \$15,400.90 | 9.7% |
| Institute of Agriculture and Natural Resources | 3856 | \$257,824.00 | \$192,200.70 | \$65,623.30 | 68.9% |
| University of Nebraska Kearney | 32 | \$400.00 | \$200.00 | \$200.00 | 0.6% |
| University of Nebraska Omaha | 132 | \$14,255.00 | \$10,227.50 | \$4,027.50 | 2.4% |
| Other Academic | 471 | \$23,238.00 | \$23,158.00 | \$80.00 | 8.4% |
| Government Agency | 291 | \$4,070.00 | \$4,070.00 | \$0.00 | 5.2% |
| Commercial | 168 | \$6,763.00 | \$6,688.60 | \$74.40 | 3.0% |
| Grand Total | 5597 | \$356,352.00 | \$270,319.90 | \$86,032.10 | 100.0% |

Holland Computing Center**Table A3. Holland Computing Center CPU hours (5/1/17- 4/30/18) per organization (as identified within SAP)**

| Organization | CPU Hours: Total |
|---|-------------------------|
| [UNL] College of Arts and Sciences | 73373306.18 |
| [UNL] College of Engineering | 36151603.4 |
| [UNL] Nebraska Research Initiative | 13568132.99 |
| [Grid] Grid | 8719216.174 |
| [UNL] College of Education and Human Sci | 3828304.669 |
| [IANR] College of Agricultural Sciences and Natural Resources | 3424290.658 |
| [UNO] College of Arts and Sciences | 3386748.8 |
| [UNMC] College of Pharmacy | 1845752.367 |
| [UNO] College of Business Administration | 1264438.356 |
| [UNMC] College of Medicine | 840925.457 |
| [Creighton] College of Medicine | 563831.2053 |
| [IANR] School of Natural Resources | 451900.2964 |
| [UNL] Human Resources | 302905.9288 |
| [WSC] Campus Wide | 261607.2847 |
| [UNO] College of Info Science and Tech | 138283.7559 |
| [UNO] College of Education | 115239.1889 |
| [UNMC] Surgery | 99033.412 |
| [UNL] College of Business Administration | 84580.4717 |
| [IANR] Cooperative Ext Division | 17322.4739 |
| [UNL] Research | 16484.7907 |
| [Henry Doorly Zoo] Henry Doorly Zoo | 15973.2122 |
| [IANR] Office of Vice Pres/Vice Chancellor | 6273.4549 |
| [UNMC] Internal Medicine | 4945.8019 |
| [UNMC] Eppley Institute | 4100.5644 |
| [Nebraska Wesleyan] Arts & Sciences | 1733.8378 |
| [UNK] Natural and Social Sciences | 306.9184 |
| [UNMC] College of Public Health | 108.3917 |
| [UNL] Civil Engineering-Lincoln | 50.4975 |
| [UNMC] College of Dentistry | 39.1392 |
| [UNL] College of Architecture | 27.9455 |
| [Doane] Arts & Sciences | 0.3081 |

**Table A4. Holland Computing Center CPU hours (5/1/17- 4/30/18)
per PI within the UNL College of Engineering (as identified within SAP)**

| PI | CPU Hours: Total |
|------------------------|-------------------------|
| Alexandrov, Vitaly | 18369842.57 |
| Wang, Jian | 4793459.302 |
| Reid, John | 4052259.893 |
| Huang, Jinsong | 3569070.947 |
| Kim, Yong-Rak | 2277387.503 |
| Negahban, Mehrdad | 1432612.51 |
| Ndao, Sidy | 798633.5374 |
| Saha, Rajib | 409293.0688 |
| Bobaru, Florin | 102387.7406 |
| Park, Jae Sung | 92240.8038 |
| Pedrigi, Ryan | 90749.9109 |
| Turner, Joseph | 42159.9787 |
| Yan, Qiben | 41309.3295 |
| Soh, Leen-Kiat | 25040.3275 |
| Pierobon, Massimiliano | 19960.0509 |
| Li, Xu | 15221.9136 |
| Sealy, Michael | 10111.3233 |
| Gu, Linxia | 6688.3818 |
| Sayood, Khalid | 2137.5112 |
| Alsaleem, Fadi | 368.037 |
| Otu, Hasan | 224.3403 |
| Hui, Qing | 160.392 |
| Wysocki, Tadeusz | 118.1289 |
| Wood, Richard | 93.1229 |
| Shen, Zhigang | 63.9309 |
| Puckett, jay | 4.4853 |
| Hempel, Michael | 4.3681 |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | Eq Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|---|---------|--------------|--|----------------|-------------------------------|--------------|--------------------------------|
| HELIOS NANOLAB 600 SCANNING ELECTRON MICROSCOPE | N223 | | Jorgensen-PI Mech/Materials Engr | 1/20/2015 | FEI CO | 1,400,186.65 | FEI CO |
| FEI TALOS F200X SYSTEM | W342 | | Nebraska Ha Mech/Materials Engr | 5/16/2017 | FEI | 886,988.30 | FEI CO |
| Femtosecond Laser Surface Processing Quo | | | Electrical & Computer Engineering | | | 673,281.00 | LEYBOLD USA INC |
| LOW ENERGY ELECTRON MICROSCOPE LEEM III | 228B | | Scott Engine/Electrical & Computer Engr | 11/10/2015 | ELMITEC ELEKTRONENMIKR | 516,817.22 | ELMITEC ELEKTRONENMIKROSKOP |
| LEGEND ELITE DUO HE+ ULTRA FAST TI SAPPHIRE | 252 | | Scott Engine/Electrical & Computer Engr | 11/4/2016 | COHERENT INC | 480,815.75 | COHERENT INC |
| BIOWASTE SYSTEM | 12 | | Othmer Hall BPDF (Biological Process D | 5/1/2011 | BIO RESPONSE SOLUTIONS | 447,964.00 | BIO-RESPONSE SOLUTIONS INC |
| ATOMIC FORCE MICROSCOPE INFRARED SPECTROSCOPY | N219A | | Scott Engine/Mech/Materials Engr | 3/6/2017 | ANASYS INSTRUMENTS | 397,122.00 | ANASYS INSTRUMENTS |
| RAMAN MICROSCOPE SYSTEM | 137 | | Nebraska Ha Mech/Materials Engr | 12/5/2013 | | 389,999.97 | HORIBA INSTRUMENTS INC |
| AJA INTERNATIONAL ATC-2200 UHV SPUTTERING SYSTEM | N213 | | Jorgensen-PI Electrical & Computer Engr | 6/30/2016 | AJA INTERNATIONAL INC | 374,950.00 | AJA INTL INC |
| LASER LITHOGRAPHY SYSTEM | 12AD | | Scott Engine/Electrical & Computer Engr | 8/25/2014 | NANOSCRIBE | 364,675.56 | NANOSCRIBE GMBH |
| FUJI F200 PLASMA ATOMIC LAYER DEPOSITION SYSTEM | 203 | | Scott Engine/Electrical & Computer Engr | 6/24/2011 | FUJI | 341,306.50 | CAMBRIDGE NANOTECH INC |
| WFI STORAGE & DISTRIBUTION SYSTEM | 54 | | Othmer Hall BPDF (Biological Process D | 12/1/2011 | MODULAR BIO PHARM SYSTEMS | 340,510.95 | MODULAR BIOPHARM SYSTEMS LLC |
| FIELD EMISSION SCANNING ELECTRON MICROSCOPE | N210 | | Jorgensen-PI Mech/Materials Engr | 5/1/2009 | FEI | 320,413.38 | FEI CO |
| VULCAN CATHODOLUMINESCENCE IMAGING SYSTEM | 208 | | Jorgensen-PI Mech/Materials Engr | 9/2/2016 | GATAN INC | 315,881.90 | GATAN INC |
| QUBET500 CONNEX3 3D PRINTER | 238 | | Jorgensen-PI Mech/Materials Engr | 6/19/2014 | STRATASYS INC | 310,530.43 | STRATASYS INC |
| MFP-3D BIO-NIKKI ATOMIC FORCE MICROSCOPE | N219A | | Jorgensen-PI Mech/Materials Engr | 9/11/2014 | ASYLUM RESEARCH | 279,245.00 | OXFORD INSTRUMENTS ASYLUM RS |
| ASTRELLA-UP-1K AMPLIFIED FEMTOSECOND LASER | 248 | | Scott Engine/Electrical & Computer Engr | 7/23/2015 | COHERENT | 260,165.34 | COHERENT INC |
| IN VIA SPECTROMETER SYSTEM | 12CA | | Scott Engine/Electrical & Computer Engr | 8/12/2014 | RENISHAW | 259,526.00 | RENISHAW INC |
| SCAN PROBE MICROSCOPE, XRAY & ION SPECTROSCOPY | | | Scott Engine/Electrical & Computer Engr | 9/2/2015 | SPECS | 256,783.00 | SPECS SURFACE NANO ANALYSIS II |
| THERMAL TECHNOLOGY SPARK PLASMA SINTERING SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 1/6/2016 | THERMAL TECHNOLOGY LLC | 253,793.74 | THERMAL TECHNOLOGY LLC |
| QUANTUM DESIGN VERSALAB 3 TESLA MEASUREMENT SYSTEM | N213B | | Jorgensen-PI Mech/Materials Engr | 5/2/2016 | QUANTUM DESIGN | 251,020.00 | QUANTUM DESIGN |
| MICROSCOPE, SCANNING ACOUSTIC | 353 | | Scott Engine/Mech/Materials Engr | 11/1/1997 | KLAUS PINTSCH | 250,000.00 | |
| FEMTO LASER SYSTEM | 12AG | | Scott Engine/Electrical & Computer Engr | 3/15/2008 | COHERENT | 244,618.02 | COHERENT INC |
| RESEARCH WATER TUNNEL MODEL | 2436 | | Scott Engine/Mech/Materials Engr | 10/1/2012 | | 238,400.00 | ROLLING HILLS RESEARCH CORP |
| COHERENT ASTRELLA USP-1K FEMTOSECOND LASER | 319 | | Scott Engine/Electrical & Computer Engr | 4/13/2016 | COHERENT | 231,045.48 | COHERENT INC |
| VK-X210 VIOLET LASER CONFOCAL MICROSCOPE | W342 | | Nebraska Ha Mech/Materials Engr | 4/15/2014 | | 230,148.00 | KEYENCE CORP OF AMERICA |
| GNPC FERMENTATION CONTROLLER SYSTEM | 322 | | Othmer Hall BPDF (Biological Process D | 3/10/2015 | R S STOVER | 218,580.75 | R S STOVER CO |
| RENISHAW RAMAN MICROSCOPE | 12AD | | Scott Engine/Electrical & Computer Engr | 9/24/2010 | RENISHAW INC | 215,165.05 | RENISHAW INC |
| FEMTO SECOND FIBER LASER | 12AH | | Scott Engine/Electrical & Computer Engr | 5/27/2014 | POLARONIX | 212,845.69 | POLARONIX INC |
| OLYMPUS BX61WI FLUORESCENCE MICROSCOPE | N216E | | Jorgensen-PI Electrical & Computer Engr | 6/29/2012 | OLYMPUS | 209,898.18 | OLYMPUS AMERICA INC |
| 220 KIP CRITERION STATIC SYSTEM | 119 | | Prem S. Paul Midwest Roadside Safety | 3/3/2015 | MTS SYST CORP | 207,102.26 | MTS SYST CORP |
| LASER SYSTEM | 252 | | Scott Engine/Electrical & Computer Engr | 3/6/2002 | SPECTRA-PHYSICS | 204,000.00 | SPECTRA PHYSICS |
| HIGH SPEED STEREO OPTICAL SYSTEM | N/A | | Scott Engine/Mech/Materials Engr | 7/15/2009 | PHOTRON | 194,400.00 | TRILION QUALITY SYSTEMS LLC |
| 22 KIP LANDMARK FATIGUE SYSTEM | 119 | | Prem S. Paul Midwest Roadside Safety | 3/25/2015 | MTS SYST CORP | 193,984.74 | MTS SYST CORP |
| PI 95 TEM PICODENTIFIER SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 11/11/2015 | HYSTRON | 193,826.26 | HYSTRON INC |
| BPDF CHILLER | N/A | | Othmer Hall BPDF (Biological Process D | 2/19/2009 | CARRIER | 184,701.64 | CARRIER CORPORATION |
| OPTICAL HALL EFFECT SYSTEM | 221 | | Scott Engine/Electrical & Computer Engr | 7/1/2013 | | 183,920.00 | OXFORD INSTRUMENTS AMERICA INC |
| STEAM STERILIZER | 326A | | Othmer Hall BPDF (Biological Process D | 10/17/2003 | PRIMUS | 176,843.99 | PRIMUS STERILIZER CO INC |
| MACHINE ELECTROCHEM ECV11 8P1CF03 (LOWE) | 120 | | Scott Engine/Mech/Materials Engr | 6/1/1994 | EXTRUDE HONE CRP | 176,386.00 | |
| CORDIN MODEL 550-24 CCD CAMERA | 308 | | Scott Engine/Mech/Materials Engr | 8/15/2005 | CORDIN | 174,837.57 | CORDIN COMPANY INC |
| 1000 WATT TUNABLE LASER | 12AH | | Scott Engine/Electrical & Computer Engr | 6/23/2008 | PRC | 166,913.00 | PRC LASER |
| SYS ENERJET MOD HV186M MULTISOURCE | 203 | | Scott Engine/Electrical & Computer Engr | 5/1/1989 | | 166,515.00 | |
| PI 85XR SEM PICODENTIFIER BASE SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 11/11/2015 | HYSTRON | 161,498.74 | HYSTRON INC |
| STS 1800 TUNABLE LASER | 12B | | Scott Engine/Electrical & Computer Engr | 12/14/2010 | PRC LASER | 161,320.00 | PRC LASER |
| MASS SPECTROMETER | 12AH | | Scott Engine/Electrical & Computer Engr | 3/29/2011 | JMS | 151,200.00 | JEOL USA INC |
| SYSTEM SPUTTERING ATC 1600 | 347 | | Scott Engine/Electrical & Computer Engr | 9/1/1995 | AJA INTERNATIONAL | 156,000.00 | |
| BIO UBI VII NANOMECHANICAL SYSTEM | 126B | | Scott Engine/Mech/Materials Engr | 9/20/2012 | HYSTRON | 155,968.00 | HYSTRON INC |
| CROSSFLOW MEMBRANE SYSTEM, MODEL 50-SIP | 12 | | Othmer Hall BPDF (Biological Process D | 6/8/2001 | NORTH CAROLINA SRI INC | 155,856.00 | NC SRT INC |
| CROSSFLOW MEMBRANE SYSTEM, MODEL 50-SIP | 138 | | Othmer Hall BPDF (Biological Process D | 6/8/2001 | NORTH CAROLINA SRT INC | 155,856.00 | NC SRT INC |
| LOW TEMP FILM DEPOSITION SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 12/14/2016 | ANGSTROM ENGINEERING INC | 150,020.00 | ANGSTROM ENGINEERING INC |
| CENTRIFUGE CS-20 | 138 | | Othmer Hall BPDF (Biological Process D | 3/1/2012 | | 149,012.04 | FIRSTENBERG MACHINERY CO INC |
| DIODE PUMPED SOLID MILLIENNAI-P | 246 | | Scott Engine/Electrical & Computer Engr | 10/1/1997 | SPECTRA-PHYSICS | 148,246.00 | |
| SYSTEM KIL HI VACUUM EVAPORATION | bell | | Scott Engine/Electrical & Computer Engr | 6/1/1990 | | 147,315.00 | |
| CONTINUUM PANTHER TUNABLE LASER | 12C | | Scott Engine/Electrical & Computer Engr | 6/30/2007 | CONTINUUM ELECTRO-OPTIK | 144,225.00 | CONTINUUM |
| 2002 PURE STEAM GENERATOR, MODEL PSG P750154 | | | Othmer Hall BPDF (Biological Process D | 6/25/2008 | MUELLER | 140,455.00 | PAUL MUELLER CO |
| FEMTOSECOND LASER SYSTEM AND SCANNING ELECTRON MICROSCOPE | 246 | | Scott Engine/Electrical & Computer Engr | 6/21/2001 | FEI Philips | 140,000.00 | FEI CO |
| MIA TAI HP DS LASER | N216E | | Jorgensen-PI Electrical & Computer Engr | 3/12/2012 | HP | 139,695.17 | NEWPORT CORP |
| AGILENT SERIES 5500 AFM/SPM MICROSCOPE SYSTEM | 12AHA | | Scott Engine/Electrical & Computer Engr | 12/1/2006 | AGILENT/MOLECULAR ENGINEERING | 137,427.30 | AGILENT TECHNOLOGIES INC |
| SYS LAP 3000 ELEC. W/AMENNA RASS | N/A | | Scott Engine/Electrical & Computer Engr | 10/1/1993 | RADIAN CORP | 136,400.00 | |
| ISOLATOR | 138 | | Othmer Hall BPDF (Biological Process D | 5/3/2005 | CONE CRAFT | 135,442.23 | CONECRAFT INC |
| SYS BASE SPECTROSCOPIC ELLIPSOMETER | 209 | | Scott Engine/Electrical & Computer Engr | 11/1/1991 | J.A. WOOLLAM CO. | 128,875.00 | |
| LINEAR HYDRAULIC ACTUATOR | 126 | | Scott Engine/Civil Engineering | 1/1/2000 | MTS | 127,440.00 | |
| VIBRANT HE 355 LD-UVDIM LASER SYSTEM | 12AH | | Scott Engine/Electrical & Computer Engr | 8/13/2014 | OPOTEK | 125,710.00 | OPOTEK INC |
| RIBO PRINTER SYSTEM | 012 | | Othmer Hall BPDF (Biological Process D | 3/18/2004 | DUPONT | 125,467.30 | DUPONT QUALICON |
| EP45W SINGLE WAVELENGTH IMAGING ELLIPSOMETER | 207 | | Scott Engine/Electrical & Computer Engr | 9/23/2013 | ACCURION | 125,000.00 | ACCURION INC |
| FLIR A830SC INFRARED CAMERA W/ 25/50/100MM | 1122 | | Scott Engine/Mech/Materials Engr | 8/28/2015 | FLIR | 123,600.00 | FLIR COMMERCIAL SYSTEMS INC |
| QUASI OPTICAL SOURCE | 221 | | Scott Engine/Lincoln Dean, Engineering | 1/1/1993 | LEASE/PURCHASE | 123,570.00 | |
| NEWVIEW 8300 3D OPTICAL PROFILING SYSTEM | 12AHA | | Scott Engine/Electrical & Computer Engr | 6/2/2014 | ZYGO CORP | 122,699.35 | ZYGO CORP |
| VAN, MODEL S341 | N/A | | Prem S. Paul NE Transportation Center | 1/9/2002 | | 118,429.00 | WOLF COACH INC |
| FLEXTEST 60 CONTROLLER | 126 | | Scott Engine/Civil Engineering | 4/15/2014 | | 117,347.69 | MTS SYST CORP |
| NORTHERN DIGITAL OPTOTRAK CERTUS HD SYSTEM | N104 | | Scott Engine/Civil Engineering | 2/6/2017 | NORTHERN DIGITAL INC | 115,804.50 | NORTHERN DIGITAL INC |
| ELLIPSOMETER VAR. ANGLE SPECTROSCOP | 209 | | Scott Engine/Electrical & Computer Engr | 11/1/1990 | J.A. WOOLLAM CO. | 114,200.00 | |
| HORIBA XPLORA PLUS RAMAN MICROSCOPE | 228A | | Scott Engine/Electrical & Computer Engr | 5/24/2017 | HORIBA | 113,000.00 | HORIBA INSTRUMENTS INC |
| ANASYS FASTSPECTRA LASER WITH INPUT MODULE | N104 | | Scott Engine/Mech/Materials Engr | 6/28/2017 | ANASYS | 111,300.00 | ANASYS INSTRUMENTS |
| MASS SPECTROMETER | 326 | | Othmer Hall BPDF (Biological Process D | 12/14/2001 | THERMOONIX | 110,334.00 | THERMO ONIX |
| NS LAB 500S ELECTROSPINNING SYSTEM | SEC 110 | | Scott Engine/Mech/Materials Engr | 2/28/2011 | NS LAB | 108,803.19 | ELMARCO INC |
| ROBOFIL 2020 WEDM SYSTEM (RM 110) | 115 | | Scott Engine/Mech/Materials Engr | 9/1/1997 | CROSSLAND MACH. | 108,075.00 | |
| UNIAXIAL TESTING SYSTEM | 126 | | Scott Engine/Civil Engineering | 5/1/1997 | MTS SYST CORP | 105,975.00 | |
| TA INSTRUMENTS Q-SERIES THERMAL LAB PACKAGE | 136 | | Othmer Hall Chemical & Biomolecular Engr | 10/14/2013 | TA INSTRUMENTS | 103,000.00 | RT INSTRUMENTS INC |
| S-INDUSTRIAL EXCIMER LASER | 337 | | Scott Engine/Electrical & Computer Engr | 6/30/2013 | BRAGG STAR | 102,756.00 | COHERENT INC |
| NTACT COATER SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 2/27/2017 | NTACT | 100,424.00 | FAS HOLDINGS GROUP LLC |
| COMPEX PRO 205 HIGH-PULSE-ENERGY EXCIMER LASER | 112C | | Scott Engine/Electrical & Computer Engr | 6/18/2014 | COHERENT | 100,050.00 | COHERENT INC |
| STERILIZER, MODEL PSS6-B-SSDD | 138 | | Othmer Hall BPDF (Biological Process D | 5/24/2001 | PRIMOS | 99,769.00 | PRIMUS STERILIZER CO INC |
| NANO UTM TESTING SYSTEM | 353 | | Scott Engine/Mech/Materials Engr | 9/21/2007 | MTS | 99,000.00 | MTS NANO INSTRUMENTS |
| BIOREACTORS SYSTEM | 139 | | Othmer Hall BPDF (Biological Process D | 6/15/2012 | BIOENGINEERING | 98,522.69 | CONECRAFT INC |
| FEED & BLEED CROSS-FLOW UNIT W/VIDEO RECORDING | 338 | | Othmer Hall BPDF (Biological Process D | 10/17/2003 | NCSRT | 98,500.00 | NCSRT INC |
| FLIR A830SC INFRARED CAMERA W/ 25/50/100MM | 1122 | | Nebraska Ha (Omaha) Durham School of A | 8/28/2015 | FLIR | 97,707.00 | FLIR COMMERCIAL SYSTEMS INC |
| QUASI OPTICAL SOURCE | 221 | | Scott Engine/Electrical & Computer Engr | 10/31/2007 | CDP | 96,258.20 | MICROTECH INSTRUMENTS INC |
| P180F-SYS PIONEER 180 PULSED LASER DEPOSITION SYSTEM | 312 | | Scott Engine/Electrical & Computer Engr | 2/6/2004 | PFEIFFER/NEOCERA | 96,227.00 | NEOCERA INC |
| BIO CAD VISION WORK STATION | 338 | | Othmer Hall BPDF (Biological Process D | 6/30/2001 | PERSEPTINE BIOSYSTEMS | 95,500.00 | APPLIED BIOSYSTEMS INTL |
| DISK PROCESSOR ENCLOSURE ARRAY | 331A | | Othmer Hall BPDF (Biological Process D | 2/18/2004 | DELL | 95,389.14 | DELL COMPUTERS |
| CONTROL AND DATA ACQUISITION SYSTEM | 108 | | Scott Engine/Civil Engineering | 9/18/2006 | IPC GLOBAL | 94,854.30 | INSTROTEK INC |
| TRANSPORTATION MGMT & TRAFFIC DATA EQUIP | 174 | | Prem S. Paul Civil Engineering | 9/29/2000 | | 94,511.00 | ECONOLITE CONTROL PROD INC |
| SYS DOPPLER SIGNAL W/TRANSMITTER ACC | 246 | | Scott Engine/Electrical & Computer Engr | 10/1/1993 | AEROMETRICS INC | 93,554.00 | |
| LPY7875-10 3.5J at 1064nm laser Quote 16 | | | Mech/Materials Engr | | | 93,500.00 | LITRON LASERS OF NORTH AMERICA |
| TURBOGEN ELECTRICAL GENERATION SYSTEM | 305 | | Scott Engine/Mech/Materials Engr | 6/30/2012 | TURBO | 93,486.00 | TURBINE TECHNOLOGIES LTD |
| GESIMANO-PL OTTER NP 2.1 | 218 | | Scott Engine/Electrical & Computer Engr | 6/3/2015 | GESIM GESELLSCHAFT | 91,748.03 | GESIM GESELLSCHAFT |
| Lumex Avance- 25 | | | Mech/Materials Engr | | | 90,000.00 | MC MACHINERY SYSTEMS INC |
| WATER PURIFICATION SYSTEM | 54 | | Othmer Hall BPDF (Biological Process D | 8/28/2009 | SIEMENS | 89,239.00 | SIEMENS WATER TECH LLC |
| SARTORIUS BIOSTAT B TWIN MO FERMENTOR W/CONTROLLER | C219 | | Othmer Hall Chemical & Biomolecular Engr | 6/9/2016 | SARTORIUS | 88,661.10 | SARTORIUS STEDIM NORTH AMERICA |
| ANASYS AFM+ ATOMIC FORCE MICROSCOPE | 219 | | Nebraska Ha Mech/Materials Engr | 10/31/2014 | ANASYS INSTRUMENTS | 88,150.00 | ANASYS INSTRUMENTS |
| COMPACT EXCIMER LASER | 12AH | | Scott Engine/Electrical & Computer Engr | 9/30/2011 | COHERENT | 87,750.00 | COHERENT INC |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | Eq Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|--|-------|--------------|-------------------------------------|----------------|---------------------------|-------------|-------------------------------|
| TESTER SERVHYDRAULIC SYSTEM 810 | 231A | | Scott Enginee | 2/1/1997 | MTS SYSTEM CORP. | 86,890.00 | |
| Lot of Kowaunee Steel Casework, epoxy re | | | Civil Engineering | | | 85,000.00 | INNOVATIVE LAB SYST INC |
| HIGH RESOLUTION 3-D STEREO IMAGING SYSTEM | 126B | | Scott Enginee | 7/19/2007 | GOM | 84,500.00 | TRILION QUALITY SYSTEMS LLC |
| CHROMATOGRAPHY SYSTEM | 338 | | Othmer Hall | 3/15/2004 | NESRT | 83,181.88 | NCSRT INC |
| CIP SKID | 138 | | Othmer Hall | 2/1/2012 | | 82,222.50 | FIRSTENBERG MACHINERY CO INC |
| BIOCAD SYSTEMS | 135 | | Othmer Hall | 8/4/2004 | APPLIED BIOSYSTEMS | 82,178.17 | APPLIED BIOSYSTEMS INTL |
| SCANNER AND ARM SYSTEM | N/A | | Prem S. Paul | 1/31/2013 | FARO TECHNOLOGIES INC | 80,548.00 | FARO TECHNOLOGIES INC |
| JEOL NEOSCOPE BENCHTOP SEM JCM 6000PLUS | 313.1 | | Scott Enginee | 8/3/2016 | JEOL | 80,349.10 | MCCRONE MICROSCOPES & ACCES |
| NDI YAG LASER, MODEL PR II 8010 | 12C | | Scott Enginee | 9/28/2005 | CONTINUUM | 79,550.00 | EXCEL CONTINUUM CORP |
| AGILENT 7890B/5977A GAS CHROMATOGRAPH/MAS | 219 | | Othmer Hall | 11/10/2015 | AGILENT | 79,098.24 | AGILENT TECHNOLOGIES INC |
| HOMOGENIZER | 138 | | Othmer Hall | 5/16/2012 | GEA | 77,755.95 | GEA NIRO SOAVI US LLC |
| GATAN SINGLE TILT HEATING STRAINING HOLDER | 33 | | Jorgensen-PT | 10/4/2016 | GATAN INC | 76,981.35 | GATAN INC |
| TTPIX PROBE STATION W/MICRO MANIPULATOR & FN213D | | | Jorgensen-PT | 10/30/2012 | LAKE SHORE | 76,251.00 | LAKE SHORE CRYOTRONICS INC |
| SPECTROPHOTOMETER | 138 | | Othmer Hall | 6/30/2004 | MOLECULAR DEVICES | 75,707.30 | BECKMAN COULTER INC |
| HPLC SYSTEM | 334 | | Othmer Hall | 1/28/2002 | WATERS | 75,047.75 | WATERS TECH CORP |
| STATION MICROSCOPE ATOMIC FORCE NS3 | 204 | | Scott Enginee | 6/11/1992 | DIGITAL INSTRUMN | 75,000.00 | |
| VUV VASE SPECTROSCOPIC ELLIPSO METER | 212 | | Scott Enginee | 9/23/2010 | JA WOOLLAM CO | 75,000.00 | JA WOOLLAM CO |
| IN-SITU RC2 ELLIPSO METER | 209 | | Scott Enginee | 1/14/2015 | JA WOOLLAM CO | 75,000.00 | JA WOOLLAM CO |
| CENTRIFUGE | N/A | | Othmer Hall | 1/6/2006 | WESTFALIA | 74,231.00 | CONTAINMENT SOLUTIONS |
| NIKON TI-E MOTORIZED RESEARCH MICROSCOPE | 126A | | Scott Enginee | 11/2/2010 | NIKON | 74,171.70 | BOYCE SCIENTIFIC INC |
| CELL CULTURE SYSTEM | N/A | | Othmer Hall | 10/15/2002 | DAS GIP | 73,601.00 | BIOMEDICAL RESOURCES & DASGIF |
| ANALYZER SERIES 1500 PULSE | 223 | | Othmer Hall | 9/1/1997 | RUPPRECHT & PATA | 72,500.00 | |
| ION BEAM DEPOSITION SYSTEM | 219 | | Othmer Hall | 6/8/2010 | SOUTH BAY TECHNOLOGY | 71,941.90 | SOUTH BAY TECHNOLOGY INC |
| ELECTROFORCE 3200 BASE SYSTEM | 126B | | Scott Enginee | 6/15/2009 | BOSE | 71,627.49 | BOSE CORP |
| DIFFERENTIAL SCANNING CALORIMETER | 303 | | Othmer Hall | 7/18/2002 | TA INSTRUMENTS | 71,435.16 | TA INSTRUMENTS INC |
| HIGH SPEED IMAGER | 110A | | Scott Enginee | 8/11/2005 | REDLAKE | 71,190.75 | IMAGING DYNAMICS LLC |
| PDPA DEMOSYSTEM, MODEL 5490AWC-00 | 131 | | Othmer Hall | 6/30/2002 | ION LASER TECH | 70,349.72 | TSI INC |
| LASER EFA 51 CO2 W/12 MO. 2 000 HR | 246 | | Scott Enginee | 11/1/1988 | | 70,000.00 | |
| AUTOPROBE AP-5000 M5 COMPLETE | 353 | | Scott Enginee | 9/11/1997 | PARK SCIENTIFIC | 70,000.00 | |
| TI-E MOTORIZED RESEARCH INVERTED MICROSCOPE | 212 | | Scott Enginee | 3/3/2013 | | 70,000.00 | BOYCE SCIENTIFIC INC |
| TA INSTRUMENTS ELECTROFORCE 3330 TABLE TOI | 108A | | Scott Enginee | 2/16/2017 | TA INSTRUMENTS | 69,212.81 | TA INSTRUMENTS INC |
| RESEARCH CABOOSE | N/A | | Scott Enginee | 7/30/2004 | UNION PACIFIC | 65,668.25 | |
| HUMMINGBIRD CONTINUOUS FLOW LIQUID TEM HCN216 | | | Jorgensen-PT | 9/20/2016 | HUMMINGBIRD PRECISION M | 65,500.00 | HUMMINGBIRD PRECISION MACHIN |
| CORDIN MODEL 214-8 C/D CAMERA | 308 | | Scott Enginee | 11/6/2006 | CORDIN | 65,162.43 | CORDIN COMPANY INC |
| DMA1 DYNAMIC MECHANICAL ANALYZER SYSTEM | 137 | | Scott Enginee | 2/13/2014 | | 65,073.52 | METTLER-TOLEDO RAININ LLC |
| ANALYZER PHASE DOPPLER SPRAY W/LASE | 246 | | Scott Enginee | 2/1/1985 | | 65,000.00 | |
| BIOCAD SYSTEM | 338 | | Othmer Hall | 8/4/2004 | APPLIED BIOSYSTEMS | 64,150.56 | APPLIED BIOSYSTEMS INTL |
| REFURBISHED VISION WORKSTATION | 338 | | Othmer Hall | 9/13/2004 | CAURO | 64,150.56 | APPLIED BIOSYSTEMS INTL |
| CHROMATOGRAPHY SYSTEM | 338 | | Othmer Hall | 6/30/2004 | NCSRT | 64,097.93 | NCSRT INC |
| LIOS DISTRIBUTED STRUCTURE MONITORING DSM | 138 | | Scott Enginee | 3/21/2017 | LIOS TECHNOLOGY INC | 63,710.10 | LIOS TECHNOLOGY INC |
| MACHINE MILLING BRIDGE PORT 412V TN | 120 | | Scott Enginee | 6/1/1990 | | 63,625.00 | |
| CROSS-FLOW MEMBRANE SYSTEM | 338 | | Othmer Hall | 8/9/2007 | PTI ADVANCED FIARATION IN | 63,521.00 | NCSRT INC |
| LASER SYSTEM | 208 | | Scott Enginee | 4/17/2002 | SPECTRA-PHYSICS | 62,900.00 | SPECTRA PHYSICS |
| MICROSCOPE SYSTEM | 222 | | Scott Enginee | 10/4/2001 | NICOLET | 62,359.48 | THERMO NICOLET |
| WATERS ALLIANCE HPLC SYSTEM | 307 | | Othmer Hall | 10/5/2004 | WATERS | 61,511.44 | WATERS TECH CORP |
| MELT SPINNING APPARATUS | 231A | | Scott Enginee | 10/16/2001 | HIMMEL-HIMMELWORK | 61,234.57 | JOHANNA OTTO GMBH |
| DYNAMIC MECHANICAL ANALYSIS SYSTEM | 353 | | Scott Enginee | 6/30/2004 | METTLER TOLEDO | 61,230.00 | METTLER-TOLEDO RAININ LLC |
| NANOMANIPULATION 2-POSITIONER SYSTEM | 353 | | Scott Enginee | 5/8/2006 | ZYVEX CORP | 61,000.00 | ZYVEX CORP |
| FARO FOCUS S 350 LASER SCANNER | 230 | | Prem S. Paul | 4/6/2017 | FARO TECHNOLOGIES INC | 60,781.90 | FARO TECHNOLOGIES INC |
| 1200MAX HYD GAS TUBE FURNACE W LIQUID EVAP | 12CA | | Scott Enginee | 1/23/2015 | MTI CORPORATION | 60,295.00 | MTI CORPORATION |
| ISOLETTE BARNSTEAD | 138 | | Othmer Hall | 5/3/2005 | CONE CRAFT | 60,113.89 | CONECRAFT INC |
| ISOLETTE BARNSTEAD | 138 | | Othmer Hall | 5/3/2005 | CONE CRAFT | 60,113.89 | CONECRAFT INC |
| BIOCAD 60 WORKSTATION | 338 | | Othmer Hall | 4/1/1995 | PERSEPTIVE BIOSY | 60,015.00 | |
| AMPLIFIER TI:SAPPHIRE REGENERATIVE | 246 | | Scott Enginee | 6/1/1995 | PHOTONICS INDUS. | 60,000.00 | |
| TRIBOSCOPE NANOMECHANICAL TEST SYSTEM | 130.4 | | Scott Enginee | 10/31/2002 | HYSTRON INC | 60,000.00 | HYSTRON INC |
| INNOVA SCANNING PROBE MICROSCOPE SYSTEM | N104 | | Scott Enginee | 1/21/2016 | INNOVA | 58,900.00 | BRUKER NANO INC |
| Optomec | | | Mech/Materials Engr | | | 58,764.20 | OPTOMECH INC |
| MONORAIL IMPACT MACHINE WITH ACCESSORIES | 127 | | Scott Enginee | 2/15/2013 | | 58,285.00 | CADEX INC |
| RECORDER DIGITAL DISK ABEKAS A60 | 331 | | Scott Enginee | 6/1/1991 | ABEKAS VIDEO SYS | 58,050.00 | |
| lambda 750 Spectrophotometer UV Winlab Q | | | Mech/Materials Engr | | | 57,983.93 | PERKINELMER HEALTH SCI INC |
| ACQUITY UPLC H-CLASS SYSTEM | 334 | | Othmer Hall | 7/3/2014 | WATERS | 57,007.98 | WATERS TECH CORP |
| 3D Bioplotter System | | | Chemical & Biomolecular Engineering | | | 56,368.54 | ENVISIONTEC INC |
| WABECO F1410FL MILL WITH LINEAR GUIDES | 26 | | Scott Enginee | 9/4/2014 | WABECO | 56,098.00 | MDA PRECISION LLC |
| SHAMROCK 5000 SPECTROMETER W/ISTAR 334 ICC | 12C | | Scott Enginee | 8/21/2014 | ANDOR | 55,720.47 | ANDOR TECHNOLOGY |
| SIZER LIGHT SCATTERING INTENSITY RA | 246 | | Scott Enginee | 4/1/1986 | Questek | 55,000.00 | |
| HPLC SYSTEM | 334 | | Othmer Hall | 4/1/2004 | WATERS | 54,952.17 | WATERS TECH CORP |
| HPLC SYSTEM | 307 | | Othmer Hall | 9/27/2005 | WATERS | 54,914.55 | WATERS TECH CORP |
| AEROTECH XY POSITIONER | 12AH | | Scott Enginee | 9/3/2014 | AEROTECH | 54,830.00 | AEROTECH INC |
| SAPPHIRE LASER, MODEL TSNAML | 246 | | Scott Enginee | 10/1/1998 | SPECTRA-PHYSICS | 54,612.00 | |
| NI PXI TEST MEASUREMENT & CONTROL SYSTEM | 126 | | Scott Enginee | 2/10/2014 | | 54,371.89 | NATIONAL INSTRUMENTS CORP |
| HORIBA PTI QUANTMASTER 400 SPECTROFLUOR2 | 147 | | Othmer Hall | 1/18/2017 | HORIBA INSTRUMENTS INC | 53,946.99 | HORIBA INSTRUMENTS INC |
| AR2000EX RHEOMETER | 207 | | Scott Enginee | 6/30/2007 | TA INSTRUMENTS | 53,842.37 | TA INSTRUMENTS INC |
| NIKON TI-E INVERTED MICROSCOPE | W342 | | Nebraska Ha | 9/29/2014 | NIKON | 53,278.10 | NIKON INSTRUMENTS INC |
| FEMTO LASER | 249 | | Scott Enginee | 5/22/2002 | FEMTO LASERS | 53,000.00 | FEMTO LASERS PRODUKTIONS GMBH |
| GLASSWARE WASHER | 326A | | Othmer Hall | 10/17/2003 | MIELE | 52,855.00 | INNOVATIVE LAB SYST INC |
| NIKON ECLIPSE TI-E W/ HUBC CONTRAST MICROSC | 247 | | Scott Enginee | 12/11/2016 | NIKON | 52,100.00 | CAMBRIDGE SCIENTIFIC PRODUCTE |
| FLOURESCENT MICROSCOPE, MODEL DM14000B | 129 | | Scott Enginee | 4/13/2010 | LEICA | 51,957.42 | NCI INC |
| ALLIANCE HPLC SYSTEM | 15A | | Othmer Hall | 6/28/2016 | WATERS | 51,112.21 | WATERS TECH CORP |
| AGILENT HPLC SYSTEM | 219 | | Othmer Hall | 10/23/2015 | AGILENT | 50,925.28 | AGILENT TECHNOLOGIES INC |
| AGILENT 5977B GC/MSD GAS CHROMATOPRAPH | 344SE | | Scott Enginee | 2/6/2017 | AGILENT TECHNOLOGIES INC | 50,872.31 | AGILENT TECHNOLOGIES INC |
| WEU-02 WAVELENGTH EXTENSION UNIT | N216E | | Jorgensen-PT | 3/12/2012 | HP | 50,301.81 | NEWPORT CORP |
| CRYOGENIC PROBE STATION | 313 | | Scott Enginee | 2/11/2014 | | 50,293.44 | ADVANCED RESEARCH SYSTEMS IN |
| LASER YLF KHZ FREQ. DOUBLED ND W/PS | 252 | | Scott Enginee | 6/1/1995 | PHOTONICS INDUS. | 50,000.00 | |
| ELLIPSO METER MULTI WAVELENGTH M88 | 224 | | Scott Enginee | 9/1/1996 | J.A. WOOLLAM CO. | 49,999.00 | |
| M2000V FIXED ANGLE ELLIPSO METER | 335 | | Scott Enginee | 8/29/2002 | JA WOOLLAM CO | 49,640.00 | JA WOOLLAM CO |
| ALLIANCE HPLC SYSTEM | 334 | | Othmer Hall | 7/16/2014 | WATERS | 49,444.60 | WATERS TECH CORP |
| NANOSURF FLEX-BIO AFM ATOMIC FORCE MICROSC | N104 | | Scott Enginee | 3/20/2017 | NANOSURF INC | 49,265.00 | NANOSURF INC |
| PCR SYSTEM | 314B | | Othmer Hall | 3/11/2005 | APPLIED BIOSYSTEMS | 49,072.50 | APPLIED BIOSYSTEMS INTL |
| EPS150TRIAX PROBE STATION SYSTEM | 12CC | | Scott Enginee | 8/19/2014 | CASCADE MICROTECH | 48,647.00 | CASCADE MICROTECH INC |
| RF WAFER PROBE STATION | 332 | | Scott Enginee | 9/11/2004 | CASCADE | 48,437.00 | CASCADE MICROTECH INC |
| LAMBDA 900 UV/VIS/NIR, READY SYSTEM | 204 | | Scott Enginee | 7/11/1999 | PERKIN ELMER | 48,425.00 | |
| BIOANALYZER, MODEL 36664 | 314B | | Othmer Hall | 6/23/2003 | NOVA | 48,018.43 | NOVA BIOMEDICAL |
| MICROPOR ANALYZER, MODEL ASAP 2010 | 218 | | Othmer Hall | 6/30/2002 | MICROMERITICS | 47,600.56 | MICROMERITICS INSTRUMENT CORP |
| NANOSURF FLEX-FPM MICROFLUIDICS CONTROL S | N104 | | Scott Enginee | 6/12/2017 | NANOSURF | 47,465.00 | NANOSURF INC |
| LASER DIFFRACTION BASED PARTICLE SIZE ANALY | 223A | | Othmer Hall | 9/1/2005 | SYMPA | 47,000.00 | NANORIGIN INC |
| SEMICONDUCTOR SYS W/2 MPSMU-I-V MODULE, AN | N213D | | Jorgensen-PT | 6/29/2012 | KEITHLEY | 46,961.00 | TEKTRONIX INC |
| DOUBLE TILT LIQUID NITROGEN IN-SITU HOLDER | N216 | | Jorgensen-PT | 9/2/2016 | GATAN INC | 46,040.70 | GATAN INC |
| HIGH POWER PROGRAMMABLE AC SOURCE | 17 | | Scott Enginee | 4/3/2015 | CHROMA SYSTEMS Solutio | 46,039.53 | CHROMA SYSTEMS SOLUTIONS INC |
| SPECTROPHOTOMETER, ANDOR | 249 | | Scott Enginee | 8/11/2005 | ANDOR | 45,726.93 | ANDOR TECHNOLOGY |
| FIBER OPTIC SENSOR SYSTEM | 126 | | Scott Enginee | 4/26/2010 | | 45,709.50 | FISO TECHNOLOGIES INC |
| OPTICAL MULTICHANNEL ANALYZER, MODEL ME-5C | 12C | | Scott Enginee | 9/13/2005 | ANDOR | 45,610.00 | ANDOR TECHNOLOGY |
| MICROSCOPE SYSTEM | 307 | | Nebraska Ha | 11/20/2001 | NIKON | 45,364.60 | BOYCE SCIENTIFIC INC |
| LAB FERMENTER | 322 | | Othmer Hall | 9/24/2001 | BIO ENGINEERING/NLF 2 | 45,142.13 | BIENGINEERING AG |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | ig Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|--|-------|--|----------------------------|----------------|--------------------------|-------------|--------------------------------|
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 1 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 8 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 6 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 4 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 3 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 5 | 45,142.13 | BIOENGINEERING AG |
| LAB FERMENTER | 322 | Othmer Hall | BPDF (Biological Process D | 9/24/2001 | BIO ENGINEERING/NLF 7 | 45,142.13 | BIOENGINEERING AG |
| BIAXIAL DEVICE | N/A | Scott Engine/Mech/Materials Engr | | 1/1/2008 | N/A | 45,113.43 | |
| DIODE PUMPED SOLID STATE LASER, MODEL MILLI252 | 320 | Scott Engine Electrical & Computer Engin | | 10/11/1998 | SPECTRA-PHYSICS | 44,614.00 | |
| T 37 SPECTROMETER | 320 | Othmer Hall | BPDF (Biological Process D | 4/19/2004 | BRUKER | 43,941.67 | BRUKER OPTICS INC |
| ATOMIC FORCE MICROSCOPE | 137 | Nebraska Ha Mech/Materials Engr | | 7/17/2013 | | 43,851.74 | AFM WORKSHOP |
| SPECTROMETER SYSTEM | 334 | Othmer Hall | BPDF (Biological Process D | 9/14/2004 | BECKMAN COULTER | 43,359.51 | MOLECULAR DEVICES |
| OBJET 30 PRO DESKTOP 3D PRINTER SYSTEM | 360 | Scott Engine/Mech/Materials Engr | | 11/8/2012 | | 43,043.67 | SAPIENCE CORP |
| HORIBA DELTAPRO-DD FILTER BASED TCSPC SYST1258 | N/A | Scott Engine/Mech/Materials Engr | | 6/20/2016 | HORIBA | 42,987.00 | HORIBA INSTRUMENTS INC |
| RADAR SUBSURFACE INTERFACE 10B | N/A | Scott Engine Electrical & Computer Engin | | 4/1/1997 | GEOPHYS. SURVEY | 42,750.00 | |
| EVERGREEN 200 PIV LASER SYSTEM WL-532NM | 307 | Scott Engine/Mech/Materials Engr | | 4/26/2012 | | 42,542.09 | QUANTEL USA INC |
| MONOCHROMATOR & DUUV UPGRADE VASE | 209 | Scott Engine Electrical & Computer Engin | | 10/1/1997 | JA WOOLLAM CO | 42,330.00 | |
| INVERTED MICROSCOPE W/EPI-FL ATTACHMENT | 228 | Othmer Hall | Chemical & Biomolecular Er | 12/21/2009 | NIKON | 42,236.10 | BOYCE SCIENTIFIC INC |
| ECR SOURCE WAVEMAT MPDR 610 | 335 | Scott Engine Electrical & Computer Engin | | 8/1/1990 | KURT J LESKER CO | 41,950.00 | |
| SURFACE THICKNESS MEASUREMENT INSTRUMEN204 | 228 | Scott Engine Electrical & Computer Engin | | 5/28/2003 | AMBIO | 41,938.06 | AMBIO TECHNOLOGY |
| SUBSTRATE MANIPULATOR & SAMPLE PLATEN TR225 | 320 | Scott Engine Electrical & Computer Engin | | 3/26/2008 | | 41,922.03 | THERMONICS NORTHWEST INC |
| EXTENDED FORCE TRANSDUCER SYSTEM | 130.4 | Scott Engine/Mech/Materials Engr | | 5/16/2006 | HYSITRON/STANFORD RESE. | 41,921.50 | HYSITRON INC |
| REAL TIME SIMULATOR | 17A | Scott Engine Electrical & Computer Engin | | 11/22/2013 | | 41,877.88 | OPAL-RT TECHNOLOGIES |
| KINEXUS DYNAMIC SHEAR RHEOMETER | 108A | Scott Engine Civil Engineering | | 1/6/2016 | MALVERN INSTRUMENTS INC | 41,262.60 | MALVERN INSTRUMENTS INC |
| KR 20-3 ROBOT AND KRCA CONTROLLER | | Electrical & Computer Engineering | | | | 40,871.22 | KUKA ROBOTICS CORP |
| LASER SCANNER FOCUS 3D X130 | N/A | Prem S. Paul Civil Engineering | | 6/30/2014 | | 40,650.81 | FARO TECHNOLOGIES INC |
| OSCILLOSCOPE TEKTRONIX 7104 MFRAM | 208 | Scott Engine Electrical & Computer Engin | | 8/11/1990 | TEKTRONIX INC | 40,443.90 | |
| STORAGE AREA NETWORK (SAN), EQUALOGIC PS 155R | 303 | Prem S. Paul NE Transportation Center | | 2/9/2009 | DELL | 40,375.00 | DELL COMPUTERS |
| OLYMPUS X81 INVERTED MICROSCOPE | 303 | Scott Engine/Mech/Materials Engr | | 1/30/2013 | OLYMPUS | 40,000.00 | HITSCHFEL INSTR INC |
| CCD HI SPEED CAMERA | 228 | Othmer Hall | Chemical & Biomolecular Er | 9/19/2005 | ROPER SCIENTIFIC | 39,999.00 | BOYCE SCIENTIFIC INC |
| VERTEX 70 FT-IR SPECTROMETER | 221 | Scott Engine Electrical & Computer Engin | | 4/13/2010 | BRUKER | 39,983.72 | BRUKER OPTICS INC |
| FLEXCELL FX5000 TENSION SYSTEM | 129 | Scott Engine/Mech/Materials Engr | | 3/31/2010 | FLEXCELL | 39,922.00 | FLEXCELL INTL CORP |
| SPECTROMETER NICOLET W/VAC. CHAMBER | 218 | Othmer Hall | Chemical & Biomolecular Er | 7/1/1991 | NICOLET INSTRUMT | 39,887.75 | |
| ZETA POTENTIAL ANALYZER | 344 | Scott Engine Civil Engineering | | 8/31/2010 | BROOKHAVEN INSTRUMENT: | 39,695.00 | BROOKHAVEN INSTRUMENTS CORP |
| HEATER STAGE & ROTATION SYSTEM | 335 | Scott Engine Electrical & Computer Engin | | 2/15/2008 | | 39,672.45 | KURT J LESKER CO |
| ULTRASONIC IMMERSION TANK | 132 | Scott Engine/Mech/Materials Engr | | 8/5/2015 | | 39,506.00 | PHYSICAL ACOUSTICS CORP |
| LATHE ENGINE NARDINI MD | 120 | Scott Engine (Lincoln) Dean, Engineering | | 1/1/1987 | | 39,500.00 | |
| LASER SYSTEM W/TABLE UNL332104 | 362 | Scott Engine/Mech/Materials Engr | | 7/26/2004 | IB QUANTE | 39,425.00 | BIG SKY LASER TECH INC |
| TMC STACIS IX SCANNING ELECTRON MICROSCOP223 | 223 | Jorgensen-Pi Mech/Materials Engr | | 12/9/2014 | TECHNICAL MANUFACTURIN | 39,380.00 | TECHNICAL MANUFACTURING CORP |
| DYNAMIC LIGHT SCATTERING SYSTEM | 124 | Othmer Hall | Chemical & Biomolecular Er | 9/24/2007 | WYATT TECHNOLOGY | 39,207.15 | WYATT TECHNOLOGY CORP |
| BIODECONTAMINATION SYSTEM | 138 | Othmer Hall | BPDF (Biological Process D | 4/12/2005 | STERIS | 39,144.06 | STERIS CORP |
| ELLIPSO METER SYSTEM | 209 | Scott Engine Electrical & Computer Engin | | 4/7/2006 | JA WOOLLAM CO | 39,136.00 | JA WOOLLAM CO |
| SYS STEEL TANKHOMOGENIZATION | N/A | Othmer Hall | BPDF (Biological Process D | 12/1/1989 | PRECISION STAINLESS | 38,631.00 | |
| 850E INTEGRATED PEM FUEL CELL TEST STATION | 136 | Scott Engine Chemical & Biomolecular Er | | 1/28/2015 | | 38,532.50 | SCRIBNER ASSOCIATES INC |
| AUTOPROBE CP ATOMIC FORCE MICROSCOPY | 130.4 | Scott Engine/Mech/Materials Engr | | 7/11/1999 | PARK SCIENTIFIC INSTRUME | 38,200.00 | |
| GENESIS 25 SUPER ES | 326 | Othmer Hall | BPDF (Biological Process D | 4/10/2006 | VIRTIS | 37,755.51 | SP INDUSTRIES |
| RF-LUNIT | 353 | Scott Engine/Mech/Materials Engr | | 11/1/1997 | KLAUS PINTSCH | 37,600.00 | |
| SEMICONDUCTOR PARAMETER ANALYZER | 332 | Scott Engine Electrical & Computer Engin | | 6/30/2001 | AGILENT | 37,600.00 | AGILENT TECHNOLOGIES INC |
| LASER ARGON COHERENT INNOVA 300 | 124HA | Scott Engine Electrical & Computer Engin | | 12/1/1995 | COHERENT LASER | 37,482.48 | |
| BENCH TOP VACUUM, ATMOSPHERE TUBE FURNAC110 | 314B | Scott Engine/Mech/Materials Engr | | 8/26/2013 | MTI CORPORATION | 37,448.07 | MTI CORPORATION |
| CHROMATOGRAPHY SKID-PLC | 314B | Othmer Hall | BPDF (Biological Process D | 7/31/2001 | NCSTR | 37,318.00 | NC STR INC |
| VB-400 CONTROL BOX/GB-700GONIOMETER) | 222 | Scott Engine Electrical & Computer Engin | | 4/15/2010 | JA WOOLLAM CO. INC | 37,020.00 | JA WOOLLAM CO |
| AEROTECH 3D HIGH PRECISION MOTION STAGE S319 | 222 | Scott Engine Electrical & Computer Engin | | 9/30/2016 | AEROTECH INC | 36,975.00 | AEROTECH INC |
| HPLC SYSTEM | 218 | Othmer Hall | Chemical & Biomolecular Er | 4/9/2004 | WATERS | 36,700.13 | WATERS TECH CORP |
| LASER YAG 600 MH 30HZ NY61-30 | 252 | Scott Engine Electrical & Computer Engin | | 9/1/1991 | CONTINUUM | 36,679.00 | |
| 2004V8-ID-MVP W/ 8 | 174 | Prem S. Paul Civil Engineering | | 10/30/2000 | AUTOSCOPE | 36,000.00 | ECONOLITE CONTROL PROD INC |
| SOURCE WAVEMAT MOD 610 MPDR ECR | 335 | Scott Engine Electrical & Computer Engin | | 1/1/1992 | KURT J LESKER CO | 35,995.00 | |
| SUPERCONDUCTING MAGNET SYSTEM POWER SU 207 | 335 | Scott Engine Electrical & Computer Engin | | 5/18/2001 | CRYOMAGNETICS INC | 35,950.00 | JANIS RESEARCH CO |
| ALPHA X3 VIDEO WALL PROCESSOR HOST ASSEM110A | 307 | Nebraska Ha (Omaha) Durham Schol of A | | 8/30/2014 | CINEMASSIVE | 35,737.27 | CINEMASSIVE DISPLAYS LLC |
| WATERS ALLIANCE HPLC SYSTEM | 307 | Othmer Hall | Chemical & Biomolecular Er | 10/5/2004 | WATERS | 35,705.25 | WATERS TECH CORP |
| KEYSIGHT E5072A ENA SERIES NETWORK ANALYZ2112W | N/A | Nebraska Ha Electrical & Computer Engin | | 1/30/2017 | KEYSIGHT TECHNOLOGIES II | 35,397.87 | KEYSIGHT TECHNOLOGIES INC |
| CHEMILUMINESCENCE AND VISIBLE IMAGING SYSTN/A | N/A | Othmer Hall | BPDF (Biological Process D | 11/12/2001 | ALPHA INNOTECH CORP | 35,390.00 | ALPHA INNOTECH CORP |
| OSCILLOSCOPE 11802 W/SAMPLING HEAD | 249 | Scott Engine Electrical & Computer Engin | | 11/11/1988 | TEKTRONIX | 35,304.00 | |
| 2003 SUBURBAN | N/A | Scott Engine/Mech/Materials Engr | | 9/5/2003 | CHEVROLET | 35,197.77 | HUSKER AUTO GROUP-GMAC |
| BOLOMETER DETECTOR | 208 | Scott Engine Electrical & Computer Engin | | 12/1/1997 | BOMEM INC | 35,078.00 | |
| MICROSCOPE ATOMIC FORCE MM-AFM NANO | 204 | Scott Engine Electrical & Computer Engin | | 4/1/1993 | DIGITAL INSTRUMN | 35,033.38 | |
| MEASURING MACHINE | 118A | Scott Engine/Mech/Materials Engr | | 2/1/1999 | FUCHS MACHINERY | 35,000.00 | |
| TISSUE ENGINEERING & CHARACTERIZATION TEST354 | 144 | Scott Engine/Mech/Materials Engr | | 2/1/2010 | | 35,000.00 | TEST RESOURCES INC |
| MACHINE TEST TENSILE 22 KIP USED MT | 144 | Scott Engine/Mech/Materials Engr | | 8/1/1985 | | 34,500.00 | |
| AUTOPROBE CP CTOMIC FORCE MICROSCOPY | 130.4 | Scott Engine/Mech/Materials Engr | | 2/10/2000 | PARK SCIENTIFIC INSTRUME | 34,500.00 | |
| MACHINE HONE VECTOR 106 EXTRUDE HONE (UPF126 | 319 | Scott Engine/Mech/Materials Engr | | 11/1/1989 | | 34,375.00 | |
| FUJIKURA FSM 100P FACTORY FUSION SPLICER | 319 | Scott Engine Electrical & Computer Engin | | 4/1/2016 | FUJIKURA | 34,333.47 | AFL TELECOMMUNICATIONS LLC |
| INSTRON 400BTE EXTEND UPGRADE UNIVERSAL T1126 | 307 | Scott Engine (Lincoln) Dean, Engineering | | 6/30/2012 | | 34,167.81 | INSTRON |
| STRATASYS DIMENSION ELITE 3D PRINTER | 307 | Scott Engine/Mech/Materials Engr | | 8/12/2015 | STRATASYS | 34,115.00 | MID-WEST 3D SOLUTIONS LLC |
| ELECTROTHERMAL EXPLOSION EQUIPMENT | 130 | Othmer Hall | Chemical & Biomolecular Er | 5/25/2001 | ROCKLAND RESEARCH | 34,070.00 | ALOFT MAT SCIENCE & CHEM ENG C |
| KRYPTON ION LASER | 224 | Scott Engine Electrical & Computer Engin | | 6/30/2001 | COHERENT LASER | 34,022.00 | COHERENT INC |
| ROCTEST TEXAM SELF BORING PRESSUREMETER N104 | 324 | Scott Engine Midwest Roadside Safety | | 1/19/2017 | ROCTEST LTD | 33,941.76 | ROCTEST LTD |
| PRIMUM STEAM STERILIZER | 324 | Othmer Hall | Chemical & Biomolecular Er | 6/30/2002 | PRIMUM | 33,746.00 | INNOVATIVE LAB SYST INC |
| LABORATORY TOC ANALYZER | 334 | Othmer Hall | BPDF (Biological Process D | 11/19/2008 | GE | 33,341.21 | GE ANALYTICAL INSTRUMENTS INC |
| OEM-PA 1616 ULTRASONIC PHASED ARRAY SYSTEM104 | 130 | Scott Engine/Mech/Materials Engr | | 1/5/2017 | ADVANCED OEM SOLUTIONS | 33,131.96 | ADVANCED OEM SOLUTIONS LLC |
| FARO FOCUS 3D X 130 HDR LASER SCANNER | 15A | Prem S. Paul Midwest Roadside Safety | | 3/9/2017 | FARO TECHNOLOGIES INC | 33,016.75 | FARO TECHNOLOGIES INC |
| COLUMN DISTILLATION FRACTIONAL 9079 | 344 | Othmer Hall | Chemical & Biomolecular Er | 3/1/1987 | | 32,995.00 | |
| ION CHROMATOGRAPHY SYSTEM | 307 | Scott Engine Civil Engineering | | 2/1/1998 | DIONEX CORP | 32,959.00 | |
| PANASONIC MICRO EDM (RM 110) | 307 | Scott Engine/Mech/Materials Engr | | 6/14/2011 | PANASONIC MG-ED 72W | 32,850.00 | |
| VERTEX 70 SPECTROMETER | 221 | Scott Engine Electrical & Computer Engin | | 12/19/2011 | BRUKER | 32,693.91 | BRUKER OPTICS INC |
| VERDI G5 OPSLASER-DIODE SYSTEM | 312 | Scott Engine Electrical & Computer Engin | | 6/30/2010 | VERDI | 32,550.00 | COHERENT INC |
| PROSCAN 1000 MEASURING SYSTEM | 126B | Scott Engine/Mech/Materials Engr | | 1/5/2000 | | 32,525.00 | |
| MEASURING SYSTEM, PROSCAN 1000 | 126B | Scott Engine/Mech/Materials Engr | | 7/13/1999 | PROSCAN | 32,400.00 | |
| PHANTOM MIRO M310 WITH ACCESSORIES | 303 | Scott Engine/Mech/Materials Engr | | 6/30/2012 | | 32,329.75 | VISION RESEARCH INC |
| SINGLE TILT HEATING IN-SITU HOLDER | N216 | Jorgensen-Pi Mech/Materials Engr | | 9/2/2016 | GATAN INC | 31,745.94 | GATAN INC |
| HPLC SYSTEM | 136 | Othmer Hall | Chemical & Biomolecular Er | 2/3/2014 | POLYMER STANDARD SYSTE | 31,725.10 | POLYMER STANDARDS SERV-USA II |
| 590 ADV. AUTOMATED GONIOMETER/TENSIOMETE313 | 313 | Nebraska Ha Mech/Materials Engr | | 1/7/2013 | RAME-HART INSTRUMENT C | 31,529.58 | RAME-HART INSTRUMENT CO |
| SPECTRAMAX I3X MULTI-MODE DETECTION PLATF332 | 133 | Othmer Hall | Chemical & Biomolecular Er | 3/6/2017 | MOLECULAR DEVICES | 31,233.84 | VWR INTERNATIONAL LLC |
| NDYAG LASER, MODEL SOLO III | 133 | Scott Engine Civil Engineering | | 6/25/2010 | ELECTRO SCIENTIFIC INDUS | 31,157.91 | ELECTRO SCIENTIFIC INDUSTRIES |
| LOAD TENSILE SYSTEM | 353 | Scott Engine/Mech/Materials Engr | | 10/29/2004 | GATAN UK | 31,117.28 | GATAN INC |
| MULTIANGLE LIGHT SCATTERING DETECTOR QC | 334 | Othmer Hall | BPDF (Biological Process D | 3/6/2007 | WYATT | 30,707.90 | WYATT TECHNOLOGY CORP |
| DRILLING MACHINE, HP 700/250 (RM 110, EDM) | 115 | Scott Engine/Mech/Materials Engr | | 7/1/1999 | CORISMA MACHINE TOOL | 30,495.00 | |
| CENTRIFUGE WITH ROTOR | 326 | Othmer Hall | BPDF (Biological Process D | 2/8/2002 | KENDRO SORVALL | 30,447.87 | KENDRO LAB PROD LP |
| LABORATORY MICROFLUIDIZER | 12 | Othmer Hall | BPDF (Biological Process D | 10/11/1998 | MICROFLUIDICS | 30,436.00 | |
| DIMENSION ELITE SST 3D PRINTER | 313.1 | Scott Engine/Mech/Materials Engr | | 6/30/2012 | STRATASYS | 30,335.43 | MID-WEST 3D SOLUTIONS LLC |
| YLR LASER | 312 | Scott Engine Electrical & Computer Engin | | 6/30/2011 | YTTERBIUM | 30,051.61 | IPG PHOTONICS CORP |
| SHIFTING FREQUENCY TO PHASE PARTICLE | 246 | Scott Engine Electrical & Computer Engin | | 2/1/1988 | AEROMETRICS INC. | 30,000.00 | |
| HYDRAULIC PRESS 100TON | 130 | Othmer Hall | Chemical & Biomolecular Er | 10/10/2002 | | 30,000.00 | ROCKLAND RESEARCH CORP |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | Eq Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|--|-------|--------------|---|----------------|-------------------------|-------------|-------------------------------|
| DYNAMIC SHEAR RHEOMETER | 361 | | Scott EngineeMch/Materials Engr | 8/14/2003 | BOHLIN INSTRUMENTS | 30,000.00 | BOHLIN INSTRUMENTS INC |
| DIGITIZER BOARD AND PROVIDE | 308 | | Scott EngineeMch/Materials Engr | 4/1/1998 | NICOLET INSTRUMENTS | 29,954.00 | |
| QUANTRONIX IR LASER, MODEL CONDOR-1064-200-13 | | | Scott Enginee Electrical & Computer Engr | 9/12/2005 | QUANTRONIX | 29,750.00 | QUANTRONIX LASERS |
| THROMBELASTOGRAPH HEMOSTASIS ANALYZER | 135 | | Othmer Hall Chemical & Biomolecular Engr | 2/5/2007 | HAEMOSCOPE CORP | 29,739.52 | HAEMOSCOPE CORP |
| MEASURING SYSTEM, PROSCAN 1000 (Old 12957) | 126B | | Scott EngineeMch/Materials Engr | 5/4/2004 | Scantron | 29,691.76 | SCANTRON INDUSTRIAL PRODUCTS |
| COMPRESSION MACH W/ EQUIP 492501 | 126 | | Scott Enginee Civil Engineering | 5/1/1950 | | 29,680.00 | |
| PROTOMAT S103 CIRCUIT BOARD PLOTTER | 122 | | Scott Enginee Electrical & Computer Engr | 6/30/2012 | | 29,450.00 | LPKF DISTRIBUTION INC |
| SEMICONDUCTOR PARAMETER ANALYSER | 12CC | | Scott Enginee Electrical & Computer Engr | 6/13/2008 | AGILENT | 29,331.20 | AGILENT TECHNOLOGIES INC |
| BRUSHLESS MOTOR DRIVEN QUADROSCOPE | 329A | | Scott Enginee Electrical & Computer Engr | 9/18/2013 | | 29,288.21 | ASCENDING TECHNOLOGIES GMBH |
| SPECTROMETER | 222 | | Scott Enginee Electrical & Computer Engr | 10/25/1999 | NICOLET | 29,253.00 | |
| MICROSPECTROMETER | 12AG | | Scott Enginee Electrical & Computer Engr | 1/14/2010 | | 29,056.88 | NEWPORT CORP |
| GYRATORY COMPACTOR | 108 | | Scott Enginee Civil Engineering | 3/14/2008 | GYRATORY COMPACTOR | 29,020.69 | PINE TEST EQUIPMENT LLC |
| SYS EMISSION ACOUSTIC W/2 CHNL AMS3 | 144 | | Scott EngineeMch/Materials Engr | 10/1/1994 | ACOUSTIC TECH. | 28,955.99 | |
| DELL POWEREDGE R930 RACK SERVER | 29 | | Scott Enginee Electrical & Computer Engr | 5/6/2016 | DELL | 28,650.00 | DELL COMPUTERS |
| ENGINE LATHE, MODEL 1440VS HAAS SL20 | 120 | | Scott Enginee (Lincoln) Dean, Engineering | 10/5/2001 | | 28,579.00 | |
| SHEAR BETENBENDER WALL OPTIONS | 116 | | Scott EngineeMch/Materials Engr | 6/1/1994 | FUCHS MACHINERY | 28,550.00 | |
| GAS CHROMATOGRAPH SYSTEM | 15 | | Othmer Hall Chemical & Biomolecular Engr | 8/15/2005 | CONECRAFT | 27,840.00 | CONECRAFT INC |
| STERILITY TESTER ISOLETTE | 138 | | Othmer Hall BPDF (Biological Process D | 1/28/2010 | 5345 | 27,837.00 | APPENDORF NORTH AMER |
| REAL TIME PCR SYSTEM | 309 | | Othmer Hall Chemical & Biomolecular Engr | 4/17/2014 | | 27,810.00 | E-SPIN NANOTECH PVT LTD |
| ELECTROSPINNING UNIT SUPER ES-2 | 110 | | Scott EngineeMch/Materials Engr | 9/11/2013 | CISCO | 27,359.76 | CISCO PRESENTATION SYST |
| CISCO TELEPRESENCE CODEC - C40 | 102B | | Nebraska Ha (Lincoln) Dean, Engineering | 9/11/2013 | CISCO | 27,359.76 | CISCO PRESENTATION SYST |
| CISCO TELEPRESENCE CODEC - C40 | W213A | | Nebraska Ha (Lincoln) Dean, Engineering | 9/11/2013 | CISCO | 27,296.16 | CISCO PRESENTATION SYST |
| CISCO TELEPRESENCE CODEC - C40 | 102A | | Scott Enginee (Lincoln) Dean, Engineering | 9/11/2013 | CISCO | 27,296.16 | CISCO PRESENTATION SYST |
| CISCO TELEPRESENCE CODEC - C40 | 202N | | Scott Enginee (Lincoln) Dean, Engineering | 9/11/2013 | CISCO | 27,259.00 | STELLARNET INC |
| PORTABLE SPECTROMETER | 252 | | Scott Enginee Electrical & Computer Engr | 10/1/2008 | STELLARNET | 27,044.67 | INSTROTEK INC |
| UNIVERSAL TRIAXIAL CELL | 108 | | Scott Enginee Civil Engineering | 1/18/2008 | IPC GLOBAL | 26,923.65 | VWR INTERNATIONAL LLC |
| CHAMBER REFRIGERATOR | 54 | | Othmer Hall BPDF (Biological Process D | 9/13/2004 | CARON | 26,880.00 | YOKOGAWA CORP OF AMERICA |
| OPTICAL SPECTRUM ANALYZER | 319 | | Scott Enginee Electrical & Computer Engr | 6/15/2011 | YOKOGAWA | 26,790.00 | |
| SPECTRUM #CCD-3000 | 224 | | Scott Enginee Electrical & Computer Engr | 8/12/1999 | ISA | 26,453.90 | PI LP |
| HI-SPEED NANO-POSITIONING/SCANNING STAGE | 228 | | Othmer Hall Chemical & Biomolecular Engr | 9/8/2009 | NOT PROVIDED | 26,417.33 | TROXLER ELECTRONIC LAB |
| GYRATORY COMPACTOR | 108 | | Scott Enginee Civil Engineering | 5/7/2003 | TROXLER ELECTRONIC LAB | 26,331.01 | ROTH & RAU AG |
| RF ION SPUTTER GUN, NEUTRALIZER, & POWER SL225 | 15 | | Scott Enginee Electrical & Computer Engr | 2/23/2008 | ADL / HUTTINGER | 26,170.00 | APPENDORF NORTH AMER |
| APPENDORF REALPEX 2 REAL TIME PCR SYSTEM | 340 | | Scott Enginee Civil Engineering | 5/22/2009 | APPENDORF | 25,869.60 | TERZIC INSTRUMENTS LLC |
| CARL ZEISS AXIO OBSERVER A1 INVERTED MICRO309 | | | Othmer Hall Chemical & Biomolecular Engr | 3/8/2016 | CARL ZEISS | 25,730.00 | APPLIED TEST SYSTEMS |
| APPLIED TEST SYSTEMS BENDING BEAM RHEOME: 147SEC | | | Scott Enginee Civil Engineering | 4/5/2017 | APPLIED TEST SYSTEMS | 25,662.76 | QUANSER CONSULTING INC |
| QUANSER SHAKE TABLE II | N104 | | Prem S. Paul Civil Engineering | 9/29/2015 | QUANSER | 25,615.00 | TBOII TECHNOLOGY INC |
| TBOII GLASSES 2 | 133 | | Nebraska Ha (Omaha) Durham Schol of A | 6/12/2015 | TBOII | 25,558.00 | PHYSICAL ACOUSTICS CORP |
| ULTRASONIC TESTING EQUIPMENT | 132 | | Scott EngineeMch/Materials Engr | 7/31/2006 | PHYSICAL ACOUSTICS | 25,433.00 | |
| FORKLIFT HYSTER H65X4M 48 HOOK FORK | 118A | | Scott EngineeMch/Materials Engr | 6/1/1996 | FEHRS TRACTOR | 25,260.00 | ANDEEN HAGERLING INC |
| MULTI FREQUENCY CAPACITANCE/LOSS BRIDGE | 228 | | Othmer Hall Chemical & Biomolecular Engr | 1/3/2005 | ANDEEN HAGENLING | 25,200.00 | PRAXAIR |
| GAS CYLINDER CABINET | 12AH | | Scott Enginee Electrical & Computer Engr | 6/30/2006 | PRAXAIR | 25,145.12 | FISHER SCIENTIFIC CO LLC |
| ACCELERATED SOLVENT EXTRACTION SYSTEM 151216 | | | Othmer Hall (Omaha) Engineering Gener | 8/2/2013 | | 25,115.69 | ANTON PAAR USA INC |
| ANTON PAAR SURFACE POTENTIAL ANALYZER | 207 | | Othmer Hall Chemical & Biomolecular Engr | 2/14/2017 | ANTON PAAR USA INC | 25,050.00 | DIAMANT TECHNOLOGIES INC |
| PRECISION PREMIER II 200V MULTIFERROIC TESTE 210 | | | Scott EngineeMch/Materials Engr | 8/22/2013 | | 25,000.00 | DMT-USA INC |
| PRESSURE MYOGRAPH SYSTEM | 354 | | Scott EngineeMch/Materials Engr | 10/30/2013 | | 24,913.00 | DSPACE INC |
| D SPACE CONTROL SYSTEM | 17A | | Scott Enginee Electrical & Computer Engr | 7/24/2015 | DSPACE | 24,856.92 | SIMWORK SYSTEMS OF TUCSON IN |
| WALL MOUNTED WORK ASSESSMENT SYSTEM | 121B | | Nebraska Ha (Omaha) Durham Schol of A | 9/30/2013 | SIMWORKS SYSTEMS | 24,637.53 | DIVERSIFIED TECHNICAL SYSTEMS |
| SLICE PRO-HB DATA ACQUISITION SYSTEM | W342 | | Nebraska Ha Mech/Materials Engr | 1/15/2013 | | 24,637.53 | DIVERSIFIED TECHNICAL SYSTEMS |
| SLICE PRO-HB DATA ACQUISITION SYSTEM | W342 | | Nebraska Ha Mech/Materials Engr | 1/15/2013 | | 24,582.51 | PRINCETON INSTRUMENTS |
| DIGITAL CCD CAMERA SYSTEM, MODEL SP2300I | N216E | | Jorgensen-PI Electrical & Computer Engr | 10/14/2005 | ACTON/PRINCETON | 24,568.66 | FLEXCELL INTL CORP |
| STREAMER SHEAR STRESS SYSTEM | 129 | | Scott EngineeMch/Materials Engr | 11/23/2009 | FLEXCELL | 24,360.59 | SPECTRA PHYSICS |
| EXCELSIOR 532 CONTINUOUS WAVE SOLID STATE | W145G | | Nebraska Ha Electrical & Computer Engr | 10/18/2010 | EXCELSIOR SCIENTIFIC | 24,291.00 | TELEMARK |
| SOLID STATE ELECTRON BEAM POWER SUPPLY | 225 | | Scott Enginee Electrical & Computer Engr | 6/30/2008 | TELEMARK | 24,162.75 | TA INSTRUMENTS INC |
| AR1500EX RHEOMETER | 303 | | Scott EngineeMch/Materials Engr | 11/19/2013 | TA INSTRUMENTS INC | 24,160.83 | NEWPORT CORP |
| NEWPORT CUSTOM MOTOR, PST & CONTROL, (MIC 307 | | | Scott EngineeMch/Materials Engr | 5/15/2003 | NEWPORT CORP | 24,119.78 | KURT J LESKER CO |
| CRYO SHROUD ASSEMBLY | 335 | | Scott Enginee Electrical & Computer Engr | 1/30/2009 | LESKER | 24,078.43 | LINWELD |
| LIQUID NITROGEN STORAGE SYSTEM | 54 | | Othmer Hall BPDF (Biological Process D | 11/23/2010 | CHART | 24,042.45 | MCCRONE MICROSCOPES & ACCES |
| LINKAM SHEARING OPTICAL RHEOLOGY SYSTEM | 231 | | Scott EngineeMch/Materials Engr | 1/21/2014 | LINKAM | 23,999.00 | EMONA TECHNOLOGIES |
| TELECOMMUNICATIONS EQUIPMENT, MODEL TMS-329B | | | Scott Enginee Electrical & Computer Engr | 10/6/2005 | EMONA Technologies | 23,900.18 | MEDIARIGHT LLC |
| PANASONIC AJPX800PJF CAMRECORDER & ACCESSO 122 | | | Nebraska Ha (Omaha) Durham Schol of A | 9/1/2015 | PANASONIC | 23,850.00 | |
| HZ TO 500 MHZ NETWORK & SPECTRUM | 146 | | Scott Enginee Electrical & Computer Engr | 7/1/1998 | HEWLETT PACKARD | 23,780.70 | SHERIN SCIENTIFIC CO INC |
| AXIOVERT 40 CFL MICROSCOPE AND STAND | 305 | | Othmer Hall Chemical & Biomolecular Engr | 10/5/2011 | AXIOVERT | 23,575.13 | NCSTR INC |
| PILOT CROSS-FLOW UNIT, MOD10-3654 | 138 | | Othmer Hall BPDF (Biological Process D | 4/1/2012 | NORTH CAROLINA SRT INC. | 23,440.39 | SKC COMMUNICATIONS PROD INC |
| CISCO TELEPRESENCE SYS C90 CONFERRING K 111 | | | Scott Enginee (Lincoln) Dean, Engineering | 6/30/2014 | CISCO | 23,440.39 | SKC COMMUNICATIONS PROD INC |
| CISCO TELEPRESENCE SYS C90 CONFERRING K237 | | | Scott Enginee (Lincoln) Dean, Engineering | 6/30/2014 | CISCO | 23,389.90 | |
| PROSCAN 1000 MEASURING SYSTEM | 126B | | Scott EngineeMch/Materials Engr | 5/1/2000 | | 23,385.76 | PI LP |
| NANOPOSITIONING SCANNING STAGE | 228 | | Othmer Hall Chemical & Biomolecular Engr | 9/29/2008 | PI | 23,357.25 | HITSCHFEL INSTR INC |
| MICROFLUIDIC CORNER | 110A | | Scott EngineeMch/Materials Engr | 8/10/2006 | | 23,335.70 | |
| FERMENTOR BF-3000 W/ACC M1217-0009B | 314A | | Othmer Hall BPDF (Biological Process D | 6/1/1993 | NEW BRUNSWICK | 23,250.00 | |
| HOMOGENIZER MODEL 30CD LAB/BIOT PL | 338 | | Othmer Hall BPDF (Biological Process D | 10/1/1989 | | 23,113.00 | MBRAUN INC |
| MBRAUN LABSTAR GLOVE BOX WITH GAS PURIFIC.313 | | | Scott EngineeMch/Materials Engr | 11/24/2014 | MBRAUN | 22,891.43 | LPKF DISTRIBUTION INC |
| LPKF PROTOTYPE BGA CIRCUIT BOARD ASSEMBL 122 | | | Scott Enginee Electrical & Computer Engr | 6/29/2016 | LPKF | 22,827.80 | BIG SKY LASER TECH INC |
| FREQUENCY DOUBLED LASER AND POWER SUPPL 249 | | | Scott Enginee Electrical & Computer Engr | 5/20/2005 | BIG SKY LASER | 22,825.58 | HAEMONETICS CORP |
| TEG5000 THROMBOELASTOGRAPH HEMOSTASIS A 135 | | | Othmer Hall Chemical & Biomolecular Engr | 9/25/2012 | TEG | 22,818.74 | NATIONAL INSTRUMENTS CORP |
| DATA ACQUISITION SYSTEM | 247 | | Scott EngineeMch/Materials Engr | 1/21/2010 | NATIONAL INSTRUMENTS | 22,782.37 | CORTEST INC |
| HPHT PROOF RING TEST SYSTEM | N104 | | Scott EngineeMch/Materials Engr | 6/1/2015 | | 22,760.00 | SIMWORK SYSTEMS OF TUCSON IN |
| PORTABLE WORK ASSESSMENT SYSTEM | 131 | | Nebraska Ha (Omaha) Durham Schol of A | 9/30/2013 | SIMWORKS SYSTEMS | 22,700.00 | |
| MILLING MACHINE BRIDGEPORT | 118 | | Scott EngineeMch/Materials Engr | 8/1/1997 | FUCHS MACHINERY | 22,697.00 | |
| SPECTROMETER FAR IR, MODEL MB-SERIES B-102 209 | | | Scott Enginee Electrical & Computer Engr | 3/1/1998 | BOMEM INC. | 22,670.50 | NEXGEN ERGONOMICS |
| NEXGEN INDUSTRIAL LUMBAR MOTION MONITOR 3 113 | | | Nebraska Ha (Omaha) Durham Schol of A | 4/20/2016 | NEXGEN ERGONOMICS | 22,667.89 | FRANZ GROUP |
| VIDEO CONFERRING BOARD ROOM TABLE | 304C | | Othmer Hall BPDF (Biological Process D | 3/9/2004 | NUAIRE | 22,640.80 | AGILENT TECHNOLOGIES INC |
| NETWORK/SPECTRUM/IMPEDANCE ANALYZER | 122 | | Scott Enginee Electrical & Computer Engr | 10/13/2004 | AGILENT | 22,408.50 | |
| SYS IMMERSION ULTRASONIC PAC II | 144 | | Scott EngineeMch/Materials Engr | 4/1/1995 | PHYSICAL ACOUSTIC | 22,335.00 | RETHINK ROBOTICS INC |
| BAXTER RESEARCH ROBOT - C NELSON | 359 | | Scott EngineeMch/Materials Engr | 8/21/2013 | RETHINTZ ROBOTICS | 22,271.10 | EDWARDS VACUUM LLC |
| EDWARDS IH160 DRY VACUUM PUMP 200/200V | 218 | | Othmer Hall Chemical & Biomolecular Engr | 12/6/2016 | EDWARDS | 22,120.00 | |
| AUTOSCOPE 2003 | 262G | | Prem S. Paul NE Transportation Center | 10/1/1992 | TRAFFIC CONTROL | 22,048.75 | AMT INC ADVANCED MEASUREMENTS |
| POTENTIOSTAT/GALVANOSTAT, MODEL 273A | 232 | | Othmer Hall Chemical & Biomolecular Engr | 2/9/2009 | | 21,853.72 | STRUERS INC |
| STRUERS TENUPOL-5 CONTROL & POLISHING UNIT W342 | | | Nebraska Ha Mech/Materials Engr | 10/23/2014 | STRUERS | 21,807.58 | QUANTUM DESIGN |
| QUANTUM DESIGN V531 VSM VERSALAB SAMPLE CN213B | | | Jorgensen-PI Mech/Materials Engr | 4/27/2016 | QUANTUM DESIGN | 21,800.00 | DSPACE INC |
| ADVANCED CONTROL EDUCATION KIT, ACE 1005 | 17 | | Scott Enginee Electrical & Computer Engr | 2/17/2010 | DSPACE | 21,616.00 | G.TEC NEUROTECHNOLOGY USA IN |
| G.TEC G.LADYBIRD WIRELESS BIOSIGNAL EEG SYS 209N | | | Scott Enginee Electrical & Computer Engr | 5/12/2017 | G.TEC | 21,600.00 | HAEMONETICS CORPORATION |
| THROMBELASTOGRAPH HEMOSTASIS ANALYZER | N/A | | Othmer Hall Chemical & Biomolecular Engr | 9/8/2008 | TEG | 21,440.00 | AGILENT TECHNOLOGIES INC |
| NETWORK AND SPECTRUM | 146 | | Scott Enginee Electrical & Computer Engr | 4/23/2002 | AGILENT | 21,440.00 | AGILENT TECHNOLOGIES INC |
| NETWORK AND SPECTRUM ANALYZER | 146 | | Scott Enginee Electrical & Computer Engr | 4/23/2002 | AGILENT | 21,418.71 | FISHER SCIENTIFIC CO LLC |
| BIOTEK SYNERGY MICROPLATE READER | 340 | | Scott Enginee Civil Engineering | 6/29/2017 | BIOTEK | 21,370.03 | LEYBOLD VACUUM PRODUCTS INC |
| TURBOPUMP CONTROLLER | 225 | | Scott Enginee Electrical & Computer Engr | 9/28/2006 | LEYBOLD | 21,338.76 | NATIONAL INSTRUMENTS CORP |
| DC CHASSIS | 132 | | Scott EngineeMch/Materials Engr | 4/26/2011 | NATIONAL INSTRUMENTS | 21,295.00 | CHROMA SYSTEMS SOLUTIONS INC |
| CHROMA MODEL 61704 PROGRAMMABLE AC SOUR 17A | | | Scott Enginee Electrical & Computer Engr | 8/4/2016 | CHROMA SYSTEMS SOLUTIO | 21,152.00 | MICROWAY INC |
| MICROWAY XEON TESLA WHISPER STATION | 303C | | Nebraska Ha Mech/Materials Engr | 9/30/2014 | MICROWAY | 20,940.05 | METROHM USA |
| BIPOTENTIOSTATE SYSTEM | 228 | | Othmer Hall Chemical & Biomolecular Engr | 4/3/2012 | AUTOLAB | 20,614.00 | P A HILTON |
| PA HILTON A660 AIR CONDITIONING LABORATORY | 1305 | | Scott EngineeMch/Materials Engr | 9/27/2016 | P A HILTON | 20,500.00 | HORIBA INSTRUMENTS INC |
| HORIBA SYMPHONY II 1700 IR DETECTOR | 137 | | Scott EngineeMch/Materials Engr | 10/29/2014 | HORIBA | 20,214.57 | MID AMERICAN SIGNAL INC |
| PORTABLE SENSOR POLE CABINET | 260 | | Prem S. Paul Civil Engineering | 10/6/2010 | WAVETRONIX | | |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | ig Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|---|--------|--------------|--|----------------|---------------------------|-------------|-----------------------------------|
| ADURO TEM SINGLE-TILT HOLDER | W317 | | Nebraska Ha Mech/Materials Engr | 12/15/2015 | PROTOCHIPS | 20,195.00 | PROTOCHIPS INC |
| ESPION COMPLETE STATIC PROBE SYSTEM | INV | | Scott Engine/Electrical & Computer Engin | 6/29/2007 | HIDEN ANALYTICAL | 20,045.00 | HIDEN ANALYTICAL |
| ACCELERATION AND ANGULAR RATE RECORDING FERMENTOR | INA | | Prem S. Paul Midwest Roadside Safety | 8/14/2008 | IST | 20,012.00 | INSTRUMENTED SENSOR TECH INC |
| FEMTOLASER | 249 | | Scott Engine/Electrical & Computer Engin | 2/1/1998 | FIRSTENBERG | 20,000.00 | |
| SUPER 1220/750/900 GLOVE BOX | 219 | | Scott Engine/Electrical & Computer Engin | 5/8/2002 | PEIZOSYSTEM JENA | 20,000.00 | FEMTOLASERS PRODUKTIONS GMB |
| BIOTEK SYNERGY HTX MICROPLATE READER | 219 | | Othmer Hall Chemical & Biomolecular Er | 8/20/2015 | | 19,999.54 | VACUUM TECHNOLOGY INC |
| VALLEN AMSY-6 ACOUSTIC EMISSION SYSTEM | N104 | | Scott Engine/Mech/Materials Engr | 1/14/2015 | BIOTEK | 19,971.70 | FISHER SCIENTIFIC CO LLC |
| SKULL FOR SIMULATED BRAIN PROJECT | 126 | | Scott Engine/Mech/Materials Engr | 1/12/2010 | | 19,872.38 | ACOUSTIC TECHNOLOGY GROUP IN |
| POLARIS OPTICAL TRACKING SYSTEM | W316 | | Scott Engine/Electrical & Computer Engin | 8/13/2002 | NDI NORTHER DIGITAL | 19,843.37 | DENTON ATD INC |
| MICROSCOPE | 12AHA | | Scott Engine/Electrical & Computer Engin | 12/13/2007 | AGILENT | 19,833.50 | NORTHERN DIGITAL INC |
| BANDSAW MARVEL #8 MARK II | 121 | | Scott Engine (Lincoln) Dean, Engineering | 6/1/1998 | FUCHS MACHINERY | 19,700.00 | |
| HIGH TEMP HIGH PRESSURE CELL | 218 | | Othmer Hall Chemical & Biomolecular Er | 6/30/2005 | SPECAC | 19,618.00 | SPECAC INC |
| PLASMA-THERM, MODEL 1432 | INV | | Scott Engine/Electrical & Computer Engin | 5/20/2005 | PLASMA THERM | 19,500.00 | BID-SRV |
| OPTICAL CHAMBER VARIABLE TEMP SCANNING PROBE | 209 | | Scott Engine/Electrical & Computer Engin | 11/1/1997 | JANIS RSCH CO | 19,345.80 | |
| C 30/1 LASER DISPLACEMENT PROBE (1MM RANGE) | 232 | | Othmer Hall Chemical & Biomolecular Er | 4/23/2010 | ECO CHEMIEN | 19,154.86 | METROHM USA |
| 2100 ELECTROPHORESIS QC | 334 | | Scott Engine/Mech/Materials Engr | 1/5/2000 | | 19,121.13 | |
| GONIOMETER 422 2 CIRCLE D5422X TO H | 222 | | Othmer Hall BPDF (Biological Process D | 6/5/2007 | ALIGENT | 19,068.80 | AGILENT TECHNOLOGIES INC |
| POTENTIOSTAT/GALV., 275A | 207 | | Scott Engine/Electrical & Computer Engin | 9/1/1988 | | 19,050.00 | |
| EVOLUTION RC REF CENTRIFUGE | 326 | | Othmer Hall BPDF (Biological Process D | 7/1/1999 | EG&G | 19,000.00 | |
| EVOLUTION RC REF CENTRIFUGE | 326 | | Othmer Hall BPDF (Biological Process D | 9/16/2002 | SORVALL | 18,979.79 | KENDRO LAB PROD LP |
| POWERMEASURE SYSTEM | 17A | | Scott Engine/Electrical & Computer Engin | 9/16/2002 | SORVALL | 18,979.78 | KENDRO LAB PROD LP |
| YSI 2900D BIOCHEMISTRY ANALYZER | 322A | | Othmer Hall BPDF (Biological Process D | 4/21/2004 | LECRYO LT374 | 18,963.50 | LECRYO RSCH SYST CORP |
| MINI LASER KIT | 252 | | Scott Engine/Electrical & Computer Engin | 6/24/2014 | YSI | 18,889.19 | YSI INC |
| LASER SYSTEM | 319 | | Scott Engine/Electrical & Computer Engin | 4/17/2002 | KM LABS | 18,788.59 | KAPTEYN-MURNANE LABS INC |
| HORIZONTAL TUBE FURNACE | 144 | | Scott Engine/Mech/Materials Engr | 11/20/2013 | | 18,692.94 | SACHER LASERTECHNIK LLC |
| MICROFLUIDIZER | 338 | | Othmer Hall BPDF (Biological Process D | 9/23/2002 | MICRO RYREIIC HEARING INT | 18,499.00 | MICROPROYREITICS HEATERS INTL INC |
| REACTOR W/IL TAKEOFF REFLEX COND. | 15 | | Othmer Hall Chemical & Biomolecular Er | 1/25/2007 | MICROFLUIDICS | 18,400.00 | FIRSTENBERG MACHINERY CO INC |
| BRUKER ALPHA FTIR SPECTROMETER | 218 | | Othmer Hall Chemical & Biomolecular Er | 3/1/1996 | VWR SCI. INC. | 18,310.00 | |
| 18234 MTEST WINDOWS DATA ACQUISITION | 353 | | Nebraska Ha Mech/Materials Engr | 12/20/2016 | BRUKER | 18,275.96 | BRUKER OPTICS INC |
| AUTOMATED GONIOMETER, MODEL 100-00-(11)S | 224 | | Scott Engine/Electrical & Computer Engin | 3/30/2001 | | 18,200.00 | ERNEST F FULLAM INC |
| CROSS-FLOW UNIT | 338 | | Othmer Hall BPDF (Biological Process D | 6/29/2001 | RAME-HART, INC. | 18,175.00 | RAME HART INC |
| LEICA DM2700 M RESEARCH MICROSCOPE | 234 | | Scott Engine/Mech/Materials Engr | 12/12/2001 | NCSRT | 18,155.00 | NCSRT INC |
| LEICA DM2700 M RESEARCH MICROSCOPE | 234 | | Scott Engine/Mech/Materials Engr | 3/18/2015 | LEICA | 18,124.32 | NCI INC |
| TAYLOR HOBSON - FORM TALYSURF INTRA (RM 11) | W171 | | Nebraska Ha Mech/Materials Engr | 3/18/2015 | LEICA | 18,124.31 | NCI INC |
| HEATER ASSEMBLY | 312 | | Scott Engine/Electrical & Computer Engin | 8/16/2001 | TAYLOR HOBSON | 18,118.94 | TAYLOR HOBSON INC |
| LASER MOD 3900-0A TI SAPPHIRE CW W | 249 | | Scott Engine/Electrical & Computer Engin | 12/14/2010 | | 18,089.59 | KURT J LESKER CO |
| WORKSTATION BRIDGE CRANE | 127 | | Scott Engine (Lincoln) Dean, Engineering | 12/1/1989 | | 18,050.00 | |
| TEMA MOTION 2D TRACKING CAMERAS | 130B | | Prem S. Paul Midwest Roadside Safety | 2/12/2009 | | 18,000.00 | DEARBORN CRANE & ENGINEERING |
| PICKUP IT '96 GMC C30 TC30903 WHT, UNIT 571 | N/A | | Nebraska Ha Mech/Materials Engr | 3/22/2016 | TEMA | 18,000.00 | SPECIALISED IMAGING INC |
| COMPLETE COMPOUND/BATCH SYSTEM | 138 | | Othmer Hall BPDF (Biological Process D | 10/1/1992 | BIG SKY LASER | 17,870.00 | |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | | Othmer Hall (Lincoln) Dean, Engineering | 8/1/1996 | SAPP BROS. TRUCK | 17,845.00 | |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | | Othmer Hall (Lincoln) Dean, Engineering | 10/1/2008 | PRINCETON | 17,792.86 | PRINCETON INSTRUMENTS |
| NANOMOVER CONTROLLER | 246 | | Scott Engine/Electrical & Computer Engin | 2/1/2012 | METTLER TOLEDO PLATFOR | 17,758.04 | DOVEBID INC |
| SUN BLADE 2000 WORKSTATION | 332 | | Othmer Hall BPDF (Biological Process D | 12/17/2014 | HARDINGE BRIDGEPORT | 17,728.00 | HARTWIG INC |
| COMPLETE COMPOUND/BATCH SYSTEM | 138 | | Othmer Hall (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 17,728.00 | HARTWIG INC |
| OP4520 FPGA PROCESSOR & EXPANSION UNIT | 17 | | Scott Engine/Electrical & Computer Engin | 11/9/2001 | MELLES GRIOT | 17,699.81 | MELLES GRIOT |
| VACUUM PUMPING SYSTEM - TURBO PUMP | 225 | | Othmer Hall BPDF (Biological Process D | 3/26/2003 | SUN MICROSYSTEMS | 17,610.40 | SUN MICROSYSTEMS INC |
| CLEANROOM, 6703-01-16546 | 314A | | Othmer Hall Chemical & Biomolecular Er | 11/12/2004 | DCI | 17,500.00 | DOVEBID INC |
| UNIT FOR AUTO VAPOR PRESSURE 11011 | N/A | | Scott Engine/Electrical & Computer Engin | 8/29/2016 | OPAL-RT TECHNOLOGIES | 17,313.06 | OPAL-RT TECHNOLOGIES |
| RAME-HART MODEL 250 STD GONIOMETER/TENSIO | 313 | | Scott Engine/Mech/Materials Engr | 10/31/2011 | OERLIKON | 17,158.17 | LEYBOLD USA INC |
| TRUCK 1982 INTL S1754 WHITE | N/A | | Othmer Hall Chemical & Biomolecular Er | 6/12/2001 | TERRA UNIVERSAL | 17,072.03 | VWR SCIENTIFIC |
| ULTRAPOL END & EDGE POLISHING MACHINE | 319 | | Scott Engine/Electrical & Computer Engin | 6/1/1995 | PETROLAB CORP. | 17,044.50 | |
| WHM1200 WORKHORSE MONITOR ADCP | 133 | | Scott Engine/Civil Engineering | 11/6/2014 | RAME-HART | 16,971.41 | RAME-HART INSTRUMENT CO |
| 1998 GMC PICKUP, 1 TON, 4X4 | N/A | | Nebraska Ha Midwest Roadside Safety | 7/1/1991 | MICHAEL'S TRUCK | 16,800.00 | |
| SYS ELECTROCHEM RES. 2507/0 273A | 207 | | Scott Engine/Electrical & Computer Engin | 3/24/2014 | ULTRAPOL | 16,732.00 | ULTRA TEC MFG INC |
| EXTRON CUSTOM XTP CROSSPOINT 1600 MATRIX | 5109 | | Scott Engine/Civil Engineering | 1/3/2001 | RD INSTRUMENTS | 16,712.00 | R D INSTS |
| EXTRON CUSTOM XTP CROSSPOINT 1600 MATRIX | 5109 | | Scott Engine (Lincoln) Dean, Engineering | 11/19/2001 | GMC | 16,700.00 | GARY GROSS AUTO VAN RENTAL |
| FERMENTOR | 15 | | Othmer Hall Chemical & Biomolecular Er | 8/1/1995 | EG&G PRINCETON | 16,617.00 | |
| FREEZER DRYER SYSTEM, MODEL 7758510 | 216 | | Othmer Hall Chemical & Biomolecular Er | 12/13/2008 | | 16,507.78 | BARNSTEAD INTL |
| NEC PX-61XM24 PLASMA SCREEN | 304C | | Othmer Hall BPDF (Biological Process D | 7/17/2014 | EXTRON | 16,456.45 | BUSINESS MEDIA INC |
| NEC PX-61XM24 PLASMA SCREEN | 304C | | Othmer Hall BPDF (Biological Process D | 7/17/2014 | EXTRON | 16,456.45 | BUSINESS MEDIA INC |
| ALCATEL TURBOPUMP | 347 | | Scott Engine/Electrical & Computer Engin | 9/6/2005 | NEW BRUNSWICK | 16,435.54 | FISHER SCI CO LLC |
| BIOCAD 700E WORKSTATION | 338 | | Othmer Hall BPDF (Biological Process D | 8/20/2002 | LABCONCO | 16,323.91 | VWR INTERNATIONAL LLC |
| intelliscan 30, 1.070 nm | | | Scott Engine/Electrical & Computer Engineering | 5/18/2004 | NEC | 16,311.50 | CCS PRESENTATION SYST |
| NETWORK ANALYZER, MODEL HE5061A | 332 | | Scott Engine/Electrical & Computer Engin | 5/18/2004 | NEC | 16,311.50 | CCS PRESENTATION SYST |
| ANALYZER PARAMETER SEMICONDUCTOR HP | 335 | | Scott Engine/Electrical & Computer Engin | 9/1/1998 | KURT J LESKER CO | 16,300.00 | |
| ANATOC ANALYSIS SYSTEM | 54 | | Othmer Hall BPDF (Biological Process D | 10/4/2004 | PERSEP. BIO SYST | 16,131.00 | APPLIED BIOSYSTEMS INTL |
| HARDWARE ACCELERATOR | N/A | | Scott Engine/Electrical & Computer Engin | 7/27/2005 | AGILENT | 16,050.00 | SCANLAB AMERICA INC |
| PROCESSOR, SUN ULTRA 80 MD 2450 | 355 | | Scott Engine/Mech/Materials Engr | 3/1/1987 | | 16,007.31 | AGILENT TECHNOLOGIES INC |
| HRGC TRAFFIC EQUIPMENT SYSTEM | 262G | | Prem S. Paul NE Transportation Center | 4/4/2002 | ANATEL | 16,000.00 | ANATEL |
| SYSTEM IBM IMPACT TEST DATA MOD 730 | 210 | | Scott Engine/Mech/Materials Engr | 12/3/2002 | GV ASSOC | 16,000.00 | GV & ASSOC INC |
| OPTICAL MICROSCOPE | 233 | | Scott Engine/Mech/Materials Engr | 11/17/2000 | SUN ULTRA | 15,995.00 | SUN MICROSYSTEMS INC |
| BEAM SOURCE | 347 | | Scott Engine/Electrical & Computer Engin | 6/29/2011 | | 15,983.94 | WIRELESS TECHNOLOGY INC |
| COLCHESTER STUDENT2500 CENTER LATHE ACUR 47 | 47 | | Othmer Hall (Lincoln) Dean, Engineering | 3/1/1990 | | 15,950.00 | |
| COLCHESTER STUDENT2500 CENTER LATHE ACUR 47 | 47 | | Othmer Hall (Lincoln) Dean, Engineering | 10/5/2007 | LEICA | 15,919.51 | NCI INC |
| MICROSCOPE SYSTEM | 331A | | Othmer Hall Chemical & Biomolecular Er | 2/4/2003 | CCR | 15,875.11 | AJA INTL INC |
| INTEGRATING SPHERE | 204 | | Scott Engine/Electrical & Computer Engin | 1/30/2015 | COLCHESTER | 15,718.64 | FUCHS MACHINERY |
| ORIONLX SUBSTATION AUTOMATION PLATFORM | W107.1 | | Nebraska Ha Electrical & Computer Engin | 1/30/2015 | COLCHESTER | 15,718.63 | FUCHS MACHINERY |
| ANALYZER 2-CHANNEL SIGNAL HP35670A | 132 | | Scott Engine/Mech/Materials Engr | 10/20/2005 | LEICA | 15,644.51 | NCI INC |
| 10-CELL PEM ELECTROLYZER STACK | 326D | | Scott Engine/Electrical & Computer Engin | 2/18/2004 | DELL | 15,642.62 | DELL COMPUTERS |
| AEROTECH LINEAR POSITIONING STAGES | 246 | | Scott Engine/Electrical & Computer Engin | 6/1/1999 | PERKIN ELMER COR | 15,623.00 | |
| DSPACE MICROLAB BOX CONTROL SYSTEM | 17A | | Scott Engine/Electrical & Computer Engin | 8/2/2012 | NOVATECH | 15,600.00 | NOVA TECH INC |
| MODULATION DOMAIN ANALYZER | 330 | | Scott Engine/Electrical & Computer Engin | 3/1/1996 | HEWLETT PACKARD | 15,525.00 | |
| MODULAR PHOTOLITHOGRAPHY SYSTEM | 347CR | | Scott Engine/Electrical & Computer Engin | 4/25/2008 | PROTON ENERGY SYSTEMS | 15,520.00 | PROTON ENERGY SYSTEMS INC |
| WAVERUNNER 104MX-A OSCILLOSCOPE | 17 | | Scott Engine/Electrical & Computer Engin | 8/22/2016 | AEROTECH INC | 15,432.00 | AEROTECH INC |
| WAVERUNNER 104X-A OSCILLOSCOPE | 17A | | Scott Engine/Electrical & Computer Engin | 6/28/2016 | DSPACE | 15,415.00 | DSPACE INC |
| DIFFERENTIAL RETRACTOMETER AND PC CELL | 136 | | Othmer Hall Chemical & Biomolecular Er | 6/1/1998 | HEWLETT PACKARD | 15,413.00 | |
| METTLER TOLEDO H82 HOT STAGE SYSTEM | 313.1 | | Scott Engine/Mech/Materials Engr | 8/25/2003 | SPECTRA-PHYSICS | 15,386.54 | THERMO OREL |
| COMBO BEAM & CYLINDER TESTER | 139 | | Scott Engine/Civil Engineering | 8/16/2010 | LECRYO | 15,308.01 | TELEDYNE LECROY INC |
| ELLIPSO METER SPECTRO UPGRADE - AR | 209 | | Scott Engine/Electrical & Computer Engin | 8/16/2010 | LECRYO | 15,308.01 | TELEDYNE LECROY INC |
| SYS DATA ACQUISITION MOD ED4-4M6 | N/A | | Prem S. Paul Midwest Roadside Safety | 8/16/2010 | LECRYO | 15,273.00 | UNIVERSITY OF CONNECTICUT |
| RIO WIDE TUNABLE LASER SOURCE | 319 | | Scott Engine/Electrical & Computer Engin | 8/16/2013 | STRATON | 15,241.24 | RAININ INSTR LLC |
| MICROINJECTOR SYSTEM | 353 | | Scott Engine/Mech/Materials Engr | 11/11/2016 | METTLER TOLEDO | 15,188.27 | FORNEY INC |
| LOAD BOX DEPOSITION CHAMBER | 225 | | Scott Engine/Electrical & Computer Engin | 4/1/2004 | FORNEY | 15,172.00 | |
| USED 18MM FILM ANALY MODEL M1214 | 119B | | Prem S. Paul Midwest Roadside Safety | 6/1/1995 | J.A. WOOLLAM CO. | 15,000.00 | |
| OPTICAL MICROSCOPE W/ COLOR CCD SYSTEM | 130.4 | | Scott Engine/Mech/Materials Engr | 9/1/1996 | INST. SENSOR TEC | 15,098.75 | |
| IBIDI PUMP SYSTEM | 344 | | Scott Engine/Civil Engineering | 5/23/2012 | REDFERN INTEGRATED OPIC | 15,086.25 | REDFERN INTEGRATED OPTICS INC |
| | | | | 3/14/2007 | TRITECH | 15,068.30 | TRITECH RESEARCH INC |
| | | | | 5/6/2008 | HUNTINGTON | 15,033.60 | HUNTINGTON MECHANICAL LAB INC |
| | | | | 8/1/1987 | DAN E LAPHAM | 15,000.00 | |
| | | | | 6/30/2002 | | 15,000.00 | VEECO METROLOGY |
| | | | | 6/28/2016 | IBIDI | 15,000.00 | IBIDI USA INC |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | Org Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|--|--------|-----------------|-----------------------------|----------------|---------------------------|-------------|--------------------------------|
| WATERS REFRACTOMETER 2414 | 213 | Othmer Hall | Chemical & Biomolecular Er | 12/22/2016 | WATERS TECHN CORP | 14,962.69 | WATERS TECHN CORP |
| DELL PRECISION TOWER 7910 | W317.4 | Nebraska Ha | Mech/Materials Engr | 5/21/2015 | DELL | 14,942.96 | DELL COMPUTERS |
| RTP TUBE FURNACE W/3 CHANNELS GAS FLOWME | 342 | Scott Engine | Mech/Materials Engr | 5/20/2013 | | 14,938.30 | MTI CORPORATION |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Omaha) Engineering Gener | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| HARDINGE BRIDGEPORT SERIES I MILLING MACHIN | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 12/17/2014 | HARDINGE BRIDGEPORT | 14,928.00 | HARTWIG INC |
| COMPLETE COMPOUND/BATCH SYSTEM | 138 | Othmer Hall | BPDF (Biological Process D | 2/1/2012 | PRECISION STAINLESS | 14,893.59 | DOVEBID INC |
| SPECTROPHOTOMETER ATOMIC ABSORPTION | 344 | Scott Engine | Civil Engineering | 9/1/1992 | PERKIN ELMER | 14,861.89 | |
| OPTICAL MICROSCOPE | 12AD | Scott Engine | Electrical & Computer Engin | 1/9/2008 | NIKON | 14,833.35 | BOYCE SCIENTIFIC INC |
| WILSON ROCKWELL 574-TWIN HARDNESS TESTER N104 | | Scott Engine | Mech/Materials Engr | 14/2016 | WILSON | 14,742.42 | BUEHLER-DIV OF IL TOOL WORKS I |
| APOLLO 9000 HS COMUSTION TC ANALYZER, 14-9 344 | | Scott Engine | Civil Engineering | 4/10/2001 | TEKMAR-DOHRMANN | 14,740.00 | TEKMAR CO |
| ADMET EXPERT 5601 DUAL COLUMN UNIVERSAL TE360 | | Scott Engine | Mech/Materials Engr | 10/27/2014 | ADMET | 14,740.00 | ADMET INC |
| SPECTROMETER HR-320 73100051 F/4 4 | 252 | Scott Engine | Electrical & Computer Engin | 6/1/1990 | | 14,695.00 | |
| INTERFEROMETRIC REFRACTOMETER, MODEL MIN223A | | Othmer Hall | Chemical & Biomolecular Er | 6/26/2001 | WYATT TECHNOLOGIES | 14,690.00 | WYATT TECHNOLOGY CORP |
| PULSED LASER FIBER SYSTEM | 312 | Scott Engine | Electrical & Computer Engin | 6/13/2011 | IPG PHOTONICS | 14,643.43 | IPG PHOTONICS CORP |
| 6 X 2.5 X 2.5 METER WIND TUNNEL | 17 | Scott Engine | Electrical & Computer Engin | 6/9/2010 | TMCO | 14,500.00 | TMCO INC |
| INTELLISCAM III SCANNER | 12AH | Scott Engine | Electrical & Computer Engin | 8/29/2014 | SCANLAB | 14,500.00 | SCANLAB AMERICA INC |
| TURBO VAC 600 C PUMP | 210 | Scott Engine | Mech/Materials Engr | 6/1/2014 | | 14,395.89 | LEYBOLD USA INC |
| METROHM AUTOLAB | 136 | Othmer Hall | Chemical & Biomolecular Er | 8/18/2013 | METROHM AUTOLAB | 14,342.00 | UNIVERSITY OF CONNECTICUT |
| ENVIRONMENTAL MONITORING SYSTEM | 053 | Othmer Hall | BPDF (Biological Process D | 3/3/2014 | | 14,278.01 | REES SCIENTIFIC CORP |
| WATERS 2475 MULTI-CHANNEL FLUORESCENCE DE 307 | | Othmer Hall | Chemical & Biomolecular Er | 6/6/2007 | WATERS | 14,259.14 | WATERS TECH CORP |
| BIOFLO III FERMENTOR | 322 | Othmer Hall | BPDF (Biological Process D | 1/1/1998 | NEW BRUNSWICK SC | 14,203.00 | |
| BIOFLO III FERMENTOR | 322 | Othmer Hall | BPDF (Biological Process D | 1/1/1998 | NEW BRUNSWICK SC | 14,203.00 | |
| BIOFLO III FERMENTOR | 322 | Othmer Hall | BPDF (Biological Process D | 1/1/1998 | NEW BRUNSWICK SC | 14,203.00 | |
| SPECTRUM SOLAR SIMULATOR | 335 | Scott Engine | Electrical & Computer Engin | 10/1/1997 | ORIEL CORP | 14,165.00 | |
| LASER KRYPTON 165 | 224 | Scott Engine | Electrical & Computer Engin | 1/1/1972 | Spectra-Physics | 14,135.00 | |
| ELECTROCHEMICAL WORKSTATION | 12AA | Scott Engine | Electrical & Computer Engin | 5/6/2011 | CH INSTRUMENTS | 14,070.00 | CH INSTRUMENTS INC |
| TWO-AXIS NANOPositioning SYSTEM | INV | Scott Engine | Electrical & Computer Engin | 12/6/2006 | MAD CITY LABS | 14,025.00 | MAD CITY LABS INC |
| MACHINE FREEZE THAW H-3185 | 126 | Scott Engine | Civil Engineering | 8/1/1993 | HUMBOLDT MFG. CO | 14,000.00 | |
| PROTEAN IEF SYSTEM | 307 | Othmer Hall | Chemical & Biomolecular Er | 9/13/2004 | BIO RAD | 13,898.99 | VWR INTERNATIONAL LLC |
| CCD CAMERA SYSTEM | 12C | Scott Engine | Electrical & Computer Engin | 6/30/2007 | ANDOR TECHNOLOGY | 13,863.00 | ANDOR TECHNOLOGY |
| PRECISION 50MM TRACING DRIVER W PRINTER & #307 | | Scott Engine | Mech/Materials Engr | 5/3/2012 | SURFCOM | 13,824.52 | CARL ZEISS INDUSTRIAL METROLOG |
| ERCOLINA 050KD TOP-BENDER ROTARY DRAW TUE 120 | | Scott Engine | Mech/Materials Engr | 9/22/2011 | ERCOLINA | 13,810.00 | FUCHS MACHINERY |
| GAP BED LATHE, 18"X60", MODEL JN1860 | 120 | Scott Engine | Chemical & Biomolecular Er | 6/30/2002 | ACRA-TURN | 13,750.00 | FUCHS MACHINERY & SUPPLY |
| VACUUM ATMOSPHERES CO GLOVE BOX SYSTEM N104 | | Scott Engine | Mech/Materials Engr | 2/22/2017 | VACUUM ATMOSPHERES CO | 13,745.00 | AFAB LAB LLC |
| QESPRO SCIENTIFIC GRADE SPECTROMETER | 228 | Othmer Hall | Chemical & Biomolecular Er | 10/25/2012 | OCEAN OPTICS INC | 13,653.00 | OCEAN OPTICS INC |
| PUMP NEW FOR 100B78 & 60-35 | 209 | Scott Engine | Mech/Materials Engr | 12/1/1995 | SATEC SYS. INC. | 13,648.00 | |
| UPGRADE 6 X 6 FOR WOOLAM VASE | 209 | Scott Engine | Electrical & Computer Engin | 5/1/1995 | J.A. WOOLAM CO. | 13,600.00 | |
| CHROMSTOGRAPH GAS HP 6890 AG1530A | 218 | Othmer Hall | Chemical & Biomolecular Er | 12/1/1995 | HEWLETT PACKARD | 13,539.60 | |
| 633MM KINEMATIC NOTCH FILTER | 12AD | Scott Engine | Electrical & Computer Engin | 9/1/2016 | RENISHAW INC | 13,518.91 | RENISHAW INC |
| PUMP TURBO TWP 85681 | 347 | Scott Engine | Electrical & Computer Engin | 9/1/1993 | LEYBOLD VAC.PROD | 13,514.00 | |
| -86C REVCO ULTIMA+ | 54 | Othmer Hall | BPDF (Biological Process D | 4/12/2011 | THERMO SCIENTIFIC / REVCO | 13,512.86 | FISHER SCIENTIFIC CO LLC |
| ABM B-ALERT X24 WIRELESS EEG HEADSET | 329A | Scott Engine | Electrical & Computer Engin | 10/21/2016 | ADVANCED BRAIN MONITORI | 13,489.93 | ADVANCED BRAIN MONITORING INC |
| LENOVO THINKSTATION P900 WORKSTATION | N104 | Scott Engine | Mech/Materials Engr | 12/22/2015 | LENOVO | 13,478.22 | LENOVO INC |
| POLYCOM VIDEO CONFERENCE UNIT | 206 | Scott Engine | Electrical & Computer Engin | 7/24/2008 | | 13,459.20 | SKC COMMUNICATIONS PROD INC |
| AFM EBOX AND SOFTWARE | 228 | Othmer Hall | Chemical & Biomolecular Er | 3/7/2012 | AFM WORKSHOP | 13,455.00 | AFM WORKSHOP |
| 400/660 MHZ PULSE/PATTERN GENERATOR | 307 | Scott Engine | Mech/Materials Engr | 5/14/2004 | AGILENT | 13,382.40 | AGILENT TECHNOLOGIES INC |
| PXI EXPRESS CHASSIS | W120 | Nebraska Ha | Mech/Materials Engr | 12/15/2009 | NATIONAL INSTRUMENTS | 13,365.90 | NATIONAL INSTRUMENTS CORP |
| SM125-500 OPTICAL SENSING INTERROGATOR | 319 | Scott Engine | Electrical & Computer Engin | 4/24/2009 | MICRON OPTICS | 13,353.00 | MICRON OPTICS INC |
| BRIDGE - LR-700 STANDARD UNIT | 207 | Scott Engine | Electrical & Computer Engin | 5/1/1998 | LINEAR RESEARCH | 13,307.00 | |
| GB-700 GONIOMETER | 207 | Scott Engine | Electrical & Computer Engin | 3/27/2012 | JA WOOLAM | 13,200.00 | JA WOOLAM CO |
| LYOPHILIZER | 323 | Othmer Hall | Chemical & Biomolecular Er | 7/18/2002 | THERMO SAVANT | 13,104.75 | THERMO FORMA |
| UPSTREAM SALT CREEK TRAFFIC EQUIPMENT SYS N/A | | Prem S. Paul NE | Transportation Center | 6/29/2011 | | 13,070.95 | WIRELESS TECHNOLOGY INC |
| POLYCOM HDX9000 VIDEOCONFERENCE SYSTEM 138.1 | | Scott Engine | (Lincoln) Dean, Engineering | 2/6/2013 | POLYCOM | 13,026.60 | CCS PRESENTATION SYST |
| MICROADY SPLASH PROOF SYSTEM, 16 MHZ | 133 | Scott Engine | Civil Engineering | 12/2/1999 | SONTEK | 12,965.00 | SONTEK |
| LAB SAW, 110 VOLT | 108 | Scott Engine | Civil Engineering | 8/18/2008 | ROCK MECHANICS | 12,961.04 | GEOTECHNICAL CONSULTING |
| STS SYSTEM | N/A | Scott Engine | Civil Engineering | 6/4/2002 | | 12,960.00 | BRIDGE DIAGNOSTICS INC |
| SUPERCONDUCTING MAGNET POWER SUPPLY | 208 | Scott Engine | Electrical & Computer Engin | 8/1/2006 | OXFORD | 12,885.00 | JA WOOLAM CO |
| CAPACITANCE BRIDGE | 132 | Scott Engine | Mech/Materials Engr | 12/21/2004 | ANDEEN-HAGERLING | 12,880.00 | ANDEEN HAGERLING INC |
| WAVETRONIX SAFE TRACK DETECTION MONITOR N/A | | Nebraska Ha | Civil Engineering | 2/10/2010 | | 12,874.62 | COMMONWEALTH ELEC CO |
| ULTRA SONIC SINK | 119 | Othmer Hall | BPDF (Biological Process D | 6/3/2011 | ULTRA SONIC POWER CORP | 12,804.57 | ULTRASONIC POWER CORP |
| CONSOLE CONTROL FOR MIRL-100-SL C02 | 246 | Scott Engine | Electrical & Computer Engin | 12/1/1985 | | 12,783.00 | |
| SPECTROMETER NICOLET 20SX-B FTIR | 218 | Othmer Hall | Chemical & Biomolecular Er | 2/1/1994 | INTL EQUIP. TRAD | 12,772.05 | |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 1/30/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| COLCHESTER STUDENT 2500 CENTER LATHE | 47 | Othmer Hall | (Lincoln) Dean, Engineering | 2/11/2015 | COLCHESTER | 12,764.84 | FUCHS MACHINERY |
| MODULAR CLEAN RM MODEL A1000 | 347 | Scott Engine | Electrical & Computer Engin | 9/1/1997 | CRE | 12,760.00 | |
| SYNTHESIZED RF SIGNAL GENERATOR, MODEL #8E 327 | | Scott Engine | Electrical & Computer Engin | 7/27/2005 | AGILENT | 12,752.80 | AGILENT TECHNOLOGIES INC |
| VACUUM CHAMBER SYSTEM | 12AH | Scott Engine | Electrical & Computer Engin | 12/18/2008 | LESKER | 12,723.74 | KURT J LESKER CO |
| PICOAMMETER/DC VOLTAGE SOURCE | 207 | Scott Engine | Electrical & Computer Engin | 9/27/1999 | HP 4140B | 12,712.50 | |
| 22" CINENET & TOUCH CONTROL ACCESS POINT | 110A | Nebraska Ha | (Omaha) Durham Schol of A | 8/30/2014 | CINEMASSIVE | 12,706.58 | CINEMASSIVE DISPLAYS LLC |
| HIGH VOLTAGE AMPLIFIER, MODEL 20/20C | 110 | Scott Engine | Mech/Materials Engr | 9/30/2002 | TREK | 12,688.00 | TREK INC |
| EMD MILLI-Q INTEGRAL 5 WATER PURIFICATION SY 228-233 | | Scott Engine | Mech/Materials Engr | 3/28/2017 | EMD MILLIPORE | 12,585.58 | FISHER SCIENTIFIC CO LLC |
| ELECTROCHEMICAL WORKSTATION | 212 | Scott Engine | Electrical & Computer Engin | 6/30/2012 | | 12,525.00 | CH INSTRUMENTS INC |
| 1-CHANNEL ANEMOMETER SYSTEM, MODEL IFA300314 | | Scott Engine | Mech/Materials Engr | 8/8/2006 | TSI | 12,524.15 | TSI INC |
| IMPULSE RESPONSE SYSTEM | N/A | Scott Engine | Civil Engineering | 6/30/2004 | | 12,510.00 | GERMANN INSTRUMENTS INC |
| PCR MACHINE, MODEL 1105 | N/A | Othmer Hall | Chemical & Biomolecular Er | 10/24/2006 | MEGABASE RESEARCH PROI | 12,500.00 | MEGABASE RESEARCH PRODUCTS |
| HCV 7500 LASER CHILLER | 12B | Scott Engine | Electrical & Computer Engin | 3/8/2011 | KOOLANT/DIMPLEX | 12,500.00 | PRC LASER CORP |
| HIGH TEMPERATURE EVAPORATOR ICF70 FLANGE 231 | | Scott Engine | Electrical & Computer Engin | 8/1/2015 | CHI-VAC | 12,460.00 | CHI-VAC RESEARCH & DEVELOPMEI |
| CODEC C40-NPP RACKMOUNT KIT | W133 | Nebraska Ha | (Lincoln) Dean, Engineering | 9/13/2013 | | 12,431.58 | SKC COMMUNICATIONS PROD INC |
| DUAL TAPE DRIVE STORAGE DEVICE | 331 | Scott Engine | BPDF (Biological Process D | 2/25/2004 | DELL | 12,416.03 | DELL COMPUTERS |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix B: Capital equipment within the College of Engineering (from SAP) with value > \$10,000.

| Asset description | Room | g Code Desc | Dept description | Capitalized on | Manufacturer of asset | Current APC | Vendor name |
|--|---------|-------------|--|----------------|-------------------------|-------------|--------------------------------|
| GONIOMETER 2-CIRCLE 410'S 20CM ARMS | 224 | | Scott Engine Electrical & Computer Engin | 3/1/1993 | BLAKE INDUS. INC | 12,416.00 | |
| HIGH VOLTAGE AMPLIFIER MD 10/40A | 144 | | Scott Engine Mech/Materials Engr | 3/7/2002 | TREK INC | 12,394.00 | TREK INC |
| WENTHWORTH PROBER | 126 | | Scott Engine Mech/Materials Engr | 9/24/2015 | WENTHWORTH | 12,380.00 | SILICON FIDELITY INC |
| GAMRY INTERFACE 1000E POTENTIOSTAT/GALVAN | N104 | | Scott Engine Mech/Materials Engr | 2/10/2017 | GAMRY INSTRUMENTS INC | 12,275.00 | GAMRY INSTRUMENTS INC |
| TEMPERATURE/HUMIDITY TEST CHAMBER | 337 | | Scott Engine Electrical & Computer Engin | 3/11/2014 | CSZ | 12,260.00 | CINCINNATI SUB-ZERO PRODUCTS I |
| 120-240VAC SINGLE PHASE MQ GENERATOR | CABOOSE | | Scott Engine Mech/Materials Engr | 7/12/2004 | | 12,142.00 | DIESEL POWER EQUIPMENT CO INC |
| IGAGE X91-BASE/ROVER PAIR W/ INTERNAL SATEL | 230 | | Prem S. Paul Civil Engineering | 3/29/2017 | IGAGE MAPPING CORP | 11,968.67 | IGAGE MAPPING CORP |
| BECKMAN SPECTROPHOTOMETER | 338 | | Othmer Hall BPDF (Biological Process D | 2/25/2003 | BECKMAN COULTER | 11,950.80 | VWR INTERNATIONAL LLC |
| MTI KXL-1700X-KA-UL BENCH TOP MUFFLE FURNAC | 233 | | Scott Engine Mech/Materials Engr | 2/3/2015 | MTI CORPORATION | 11,930.25 | MTI CORPORATION |
| MASS FILTER ASSEMBLY | 362 | | Scott Engine Mech/Materials Engr | 9/28/2006 | EXTREL | 11,903.23 | EXTREL CMS LLC |
| ANTENNA PAIR 3207F 100MHZ | N/A | | Scott Engine Electrical & Computer Engin | 4/1/1997 | GEOPHYS. SURVEY | 11,875.00 | |
| SINGLE PUMP POST-COLUMN DEVIATION INST | 223A | | Othmer Hall Chemical & Biomolecular Er | 3/22/2005 | PICKERING LABORATORIES | 11,777.78 | PICKERING LAB INC |
| HORIZONTAL QUENCH CONDITION COOLER | 54 | | Othmer Hall BPDF (Biological Process D | 6/13/2008 | SPIRAX SASCO | 11,753.88 | MIDCO SUPPLY CO |
| SPECTROMETER | 228 | | Othmer Hall Electrical & Computer Engin | 1/3/2012 | OCEAN OPTICS | 11,723.00 | OCEAN OPTICS INC |
| DELL PRECISION WORKSTATION | W134 | | Nebraska Ha (Lincoln) Dean, Engineering | 10/4/2007 | DELL | 11,719.15 | DELL COMPUTERS |
| NEW BRUNSWICK INNOVA 42R INCUBATED/REFRIG | 207 | | Othmer Hall Chemical & Biomolecular Er | 2/18/2017 | EPENDORF | 11,700.00 | FISHER SCIENTIFIC CO LLC |
| THERMO SCIENTIFIC NAMODROP SPECTROPHOTO | 207 | | Othmer Hall Chemical & Biomolecular Er | 2/18/2017 | THERMO SCIENTIFIC | 11,648.62 | FISHER SCIENTIFIC CO LLC |
| ANALYZER IMPEDANCE HP MOD 4192A | 335 | | Scott Engine Electrical & Computer Engin | 4/1/1983 | | 11,590.00 | |
| VELOCITY PROBE, MODEL SP-AV10M00 | 133 | | Scott Engine Civil Engineering | 10/4/2001 | SONTEK | 11,585.28 | SONTEK |
| NEWPORT RS2000 PRECISION RESEARCH OPTICAL | 319 | | Scott Engine Electrical & Computer Engin | 5/10/2016 | NEWPORT | 11,529.94 | NEWPORT CORP |
| PERISCOPE DEMO UNIT - TRAILER | N/A | | Prem S. Paul NE Transportation Center | 5/8/2003 | OMJC SIGNAL | 11,500.00 | OMJC SIGNAL INC |
| INTEL XEON COMPUTER | 127.4D | | Scott Engine Mech/Materials Engr | 3/1/2008 | SUPER MICRO COMPUTER IN | 11,486.19 | INTL COMPUTER CONCEPTS INC |
| FREEZER | 325 | | Othmer Hall BPDF (Biological Process D | 6/14/2004 | REVCO | 11,477.22 | VWR INTERNATIONAL LLC |
| HYREL 3D HYDRA 430 MODEL 16A PRINTER | W342 | | Nebraska Ha Mech/Materials Engr | 5/22/2017 | HYREL 3D | 11,475.00 | HYREL 3D |
| 24.4 CUBIC FOOT ULTRALOW UPRIGHT FREEZER | 131 | | Othmer Hall Chemical & Biomolecular Er | 9/28/2009 | REVCO | 11,435.56 | FISHER SCIENTIFIC CO LLC |
| PUMP SYRINGE W/MODIFIER ADDITION | 251 | | Scott Engine Chemical & Biomolecular Er | 7/1/1995 | ISCO CO. INC. | 11,433.00 | |
| LS-DYNA WORKSTATION, PRECISION T7400N | N/A | | Prem S. Paul Midwest Roadside Safety | 6/30/2008 | DELL | 11,430.80 | DELL MARKETING LP |
| BIAXIAL STRAIN GAGE EXTENSOMETER FOR FLAT/1 | 1144 | | Nebraska Ha Mech/Materials Engr | 4/16/2012 | INSTRON | 11,415.27 | INSTRON |
| UNITRENDS 813 STORAGE APPLIANCE | 331A | | Othmer Hall BPDF (Biological Process D | 11/31/2010 | UNITRENDS | 11,391.00 | CONNECTION |
| SPECTROGRAPH | 12C | | Scott Engine Electrical & Computer Engin | 3/3/2007 | ANDOR | 11,363.00 | ANDOR TECHNOLOGY |
| PRESS HYDRAULIC LAB W/ACC #30-12H | 144 | | Scott Engine Mech/Materials Engr | 10/11/1995 | CARVER INC. | 11,260.65 | |
| THERMO SCIENTIFIC CO2 HERA 150I INCUBATOR | 126 | | Scott Engine Mech/Materials Engr | 6/23/2015 | THERMO SCIENTIFIC | 11,167.68 | VWR INTERNATIONAL LLC |
| VACUUM PUMP SYSTEM | 362 | | Scott Engine Mech/Materials Engr | 6/30/2004 | | 11,127.69 | VARIAN VACUUM TECH |
| ALGAE TRON AG 230 FLOOR STANDING INCUBATED | 207 | | Othmer Hall Chemical & Biomolecular Er | 6/30/2017 | PSI | 11,072.67 | PSI |
| DUAL HERACELL 150I INCUBATOR | 129 | | Scott Engine Mech/Materials Engr | 6/30/2009 | THERMO SCIENTIFIC | 11,038.76 | FISHER SCIENTIFIC CO LLC |
| AGD-32 ROLLBAR FRAME GAS BOOSTER SYSTEM | 127 | | Scott Engine (Lincoln) Dean, Engineering | 8/3/2009 | HASKEL | 11,030.80 | AIR HYDRAULIC SYSTEMS INC |
| CUTTER ACE & TOOL GRINDER OLIVER MO | 117 | | Scott Engine Mech/Materials Engr | 5/1/1981 | | 10,970.00 | |
| LIFESIZE ROOM SYSTEM | W302 | | Nebraska Ha Mech/Materials Engr | 6/30/2007 | LIFESIZE COMMUNICATIONS | 10,936.73 | VIDEO GUIDANCE.COM INC |
| PUMP MOD 260D W/CONTROLLER 67124052 | 251 | | Scott Engine Chemical & Biomolecular Er | 1/1/1993 | ISCO CO. INC. | 10,924.00 | |
| LASER SCAN HEAD | 312 | | Scott Engine Electrical & Computer Engin | 5/20/2011 | | 10,876.50 | NUTFIELD TECHNOLOGY INC |
| PRINTER, DESIGNJET 42" | 174 | | Prem S. Paul NE Transportation Center | 3/24/2008 | HEWLETT PACKARD | 10,871.00 | HEWLETT PACKARD |
| SOURCEMETER 200V AND COMPONENT TEST FIXT | 122 | | Scott Engine Electrical & Computer Engin | 6/30/2012 | KEITHLEY | 10,867.00 | KEITHLEY INSTRUMENTS INC |
| Chatillon CS225 Test machine | | | Electrical & Computer Engineering | | | 10,826.00 | JOHNSON SCALE & BALANCE CO INC |
| DSP LOCK-IN AMPLIFIER, MODEL 7280 | 228 | | Othmer Hall Chemical & Biomolecular Er | 6/30/2010 | | 10,810.00 | ADVANCED MEASUREMENT TECH IN |
| DELL PRECISION TOWER 7910 | N104 | | Scott Engine Mech/Materials Engr | 6/3/2016 | DELL | 10,764.33 | DELL COMPUTERS |
| PERCIVAL SCIENTIFIC CU-30L2 TISSUE CULTURE C | 1213 | | Scott Engine Mech/Materials Engr | 11/20/2015 | PERCIVAL SCIENTIFIC | 10,760.00 | GENEVA SCIENTIFIC |
| MEDIA-SCAPE TABLE | W204 | | Nebraska Ha (Lincoln) Dean, Engineering | 6/24/2011 | STEELCASE | 10,742.25 | SHEPPARDS BUSINESS INTERIORS |
| SCANNING DENSITOMETER | 303 | | Othmer Hall Chemical & Biomolecular Er | 1/18/2003 | SHIMADZU | 10,716.40 | SHIMADZU SCI |
| IMPACT ECHO TEST SYSTEM | N/A | | Scott Engine Civil Engineering | 6/30/2004 | | 10,710.00 | GERMANN INSTRUMENTS INC |
| GRINDER SURFACE KENT MOD KG250AH | 117 | | Scott Engine (Lincoln) Dean, Engineering | 2/1/1988 | | 10,680.00 | |
| TABLE RESEARCH SERIES RS4128 W/ISOL | 12AH | | Scott Engine Electrical & Computer Engin | 8/1/1988 | | 10,678.00 | |
| IBM BLADECENTER HS23 SERVER | 322A | | Scott Engine Electrical & Computer Engin | 9/30/2013 | IBM | 10,672.00 | IBM CORP |
| PANASONIC MDF-U76VA-PA ULTRA LOW FREEZER | 328 | | Othmer Hall Chemical & Biomolecular Er | 9/17/2017 | PANASONIC | 10,664.00 | DAI SCIENTIFIC EQUIPMENT INC |
| EPILOG LASER/AIR ASSIST PUMP/EXHAUST SYSTE | 232 | | Scott Engine Mech/Materials Engr | 4/3/2012 | EPILOG | 10,645.00 | PRISM CORPORATE SOLUTIONS LLC |
| EVOLUTION 300 SPECTROPHOTOMETER | 337 | | Othmer Hall BPDF (Biological Process D | 11/17/2011 | THERMO EVOLUTION | 10,624.00 | HERBALSCIENCE INC |
| CHROMA MODEL 63803 PROGRAMMABLE AC SOUR | 17A | | Scott Engine Electrical & Computer Engin | 9/7/2016 | CHROMA SYSTEMS SolutIO | 10,585.00 | CHROMA SYSTEMS SOLUTIONS INC |
| ZABER HIGH VACUUM MOTORIZED STAGE XYZ | 249 | | Scott Engine Electrical & Computer Engin | 6/2/2016 | ZABER | 10,582.00 | ZABER TECHNOLOGIES INC |
| WABECO HIGH SPEED MILL, 230V single phas | | | Electrical & Computer Engineering | | | 10,534.00 | MDA PRECISION LLC |
| COMPACT RTP FURNACE | 12CD | | Scott Engine Electrical & Computer Engin | 5/9/2014 | MTI CORPORATION | 10,525.90 | MTI CORPORATION |
| CYLINDER ENERPAC DBL ACT W/ACC. | 126 | | Scott Engine Civil Engineering | 12/1/1990 | ENERPAC | 10,500.00 | |
| PROGRESSIVE CAMCORDER WITH ULT IMAGER | 122 | | Nebraska Ha (Omaha) Durham Schol of A | 10/1/2010 | PANASONIC | 10,483.00 | PROFESSIONAL VIDEO SUPPLY |
| TESTER MICROHARDNESS TUKON BENCH- 210 8732 | 24B | | Scott Engine Mech/Materials Engr | 12/11/1993 | WILSON INSTRUMNT | 10,463.00 | |
| ELECTROSTATIC CLASSIFIER, MODEL 3080 | 223A | | Othmer Hall Chemical & Biomolecular Er | 12/11/2004 | TSI | 10,426.00 | VIRGINIA TECH UNIVERSITY |
| HDX 8000-720P VIDEO CONFERRING SYSTEM | 262 | | Prem S. Paul NE Transportation Center | 11/17/2011 | POLYCOM | 10,399.35 | SKC COMMUNICATIONS PROD INC |
| CHROMA MODEL 63803 PROGRAMMABLE AC SOUR | 17A | | Scott Engine Electrical & Computer Engin | 9/22/2016 | CHROMA SYSTEMS SolutIO | 10,384.47 | CHROMA SYSTEMS SOLUTIONS INC |
| CHROMA MODEL 63803 PROGRAMMABLE AC SOUR | 17A | | Scott Engine Electrical & Computer Engin | 9/22/2016 | CHROMA SYSTEMS SolutIO | 10,384.47 | CHROMA SYSTEMS SOLUTIONS INC |
| AUTOCLAVE, MODEL 3870EP | 138 | | Othmer Hall BPDF (Biological Process D | 3/10/2005 | PRIMUS | 10,373.26 | VWR INTERNATIONAL LLC |
| AUTOCLAVE, MODEL 3870EP | 138 | | Othmer Hall BPDF (Biological Process D | 3/10/2005 | PRIMUS | 10,373.26 | VWR INTERNATIONAL LLC |
| COMPACT RTP FURNACE W/4" QUARTZ TUBE & DIC | 12CC | | Scott Engine Electrical & Computer Engin | 11/16/2011 | | 10,354.20 | MTI CORP |
| HDX 8004 XLP VIDEO CONFERRING SYSTEM | 175 | | Nebraska Ha (Omaha) Durham Schol of A | 11/30/2011 | POLYCOM | 10,339.35 | SKC COMMUNICATIONS PROD INC |
| PLASMA PREN CLEANER SYSTEM | 127.4 | | Scott Engine Mech/Materials Engr | 5/1/2006 | TERRA UNIVERSAL | 10,329.87 | TERRA UNIVERSAL |
| MILLENNIA PRO LASER | 249 | | Scott Engine Electrical & Computer Engin | 8/3/2009 | SPECTRA-PHYSICS | 10,325.44 | NEWPORT CORP |
| Q-SENSE CHAMBER PLATFORM WITH ELLIPSO | 212 | | Scott Engine Electrical & Computer Engin | 11/30/2010 | Q-SENSE | 10,325.00 | BIOLIN SCIENTIFIC INC |
| FERMENTER W/5 LTR VESSEL | 12 | | Othmer Hall BPDF (Biological Process D | 11/1/1997 | FIRSTENBERG MACH | 10,300.00 | |
| COMP 486DX 100B/420 ANALYTICAL | 303 | | Othmer Hall Chemical & Biomolecular Er | 6/1/1995 | NICOLET INST COR | 10,269.45 | |
| FARO FREESTYLE 3D HANDHELD LASER SCANNER | 130 | | Prem S. Paul Midwest Roadside Safety | 3/9/2017 | FARO TECHNOLOGIES INC | 10,253.51 | FARO TECHNOLOGIES INC |
| STAINLESS STEEL GANTRY | 138 | | Othmer Hall BPDF (Biological Process D | 5/20/2011 | RIVERS METAL | 10,252.00 | RIVERS METAL PROD INC |
| POTENTIOSTAT GALVANOSTAT SYSTEM | 228 | | Othmer Hall Chemical & Biomolecular Er | 12/10/2012 | | 10,241.67 | METROHM USA |
| SPECTRUM ANALYZER 9KHZ 1.8 GHZ RF | 330 | | Scott Engine Electrical & Computer Engin | 6/1/1998 | HEWLETT PACKARD | 10,236.00 | |
| BUEHLER SIMPLIMET XP51 COMPRESSION MOUNT | N104 | | Scott Engine Mech/Materials Engr | 1/25/2016 | BUEHLER | 10,215.04 | BUEHLER |
| PUMPING STATION | 127B | | Scott Engine Mech/Materials Engr | 7/7/2010 | EDWARDS VACUUM INC | 10,175.73 | EDWARDS VACUUM INC |
| FIRESTAR 40W LASER | 312 | | Scott Engine Electrical & Computer Engin | 6/29/2007 | SYNRAD | 10,169.60 | SYNRAD INC |
| FIRESTAR 40W KEYSWITCH FAN LASER | N/A | | Scott Engine Electrical & Computer Engin | 9/11/2007 | NOT AVAILABLE | 10,168.05 | SYNRAD INC |
| 28" SHOCK TUBE & SECTIONS | 126 | | Scott Engine (Lincoln) Dean, Engineering | 11/22/2010 | | 10,145.00 | LINCOLN MACHINE INC |
| UPSTREAM 44TH ST TRAFFIC EQUIPMENT SYSTEM | 262G | | Prem S. Paul NE Transportation Center | 6/29/2011 | | 10,119.78 | WIRELESS TECHNOLOGY INC |
| UPSTREAM 44TH ST TRAFFIC EQUIPMENT SYSTEM | N/A | | Prem S. Paul NE Transportation Center | 6/29/2011 | | 10,119.78 | WIRELESS TECHNOLOGY INC |
| CADEX C8000 ANALYZER | 326C | | Scott Engine Electrical & Computer Engin | 11/2/2011 | CADEX | 10,080.00 | CADEX |
| EXPANDED PLASMA CLEANER | 216 | | Othmer Hall Chemical & Biomolecular Er | 10/12/2011 | HARRICK PLASMA | 10,078.49 | HARRICK PLASMA INC |
| EASY SCAN E-STM SYSTEM | 12AH/A | | Scott Engine Electrical & Computer Engin | 1/3/2005 | NANO SCIENCE | 10,068.00 | NANOSCIENCE INSTRUMENTS INC |
| SF-1853 SUPERFLOW | 305 | | Scott Engine Mech/Materials Engr | 8/30/2010 | | 10,060.00 | SUPERFLOW TECHNOLOGIES GROL |
| CENTRIFUGE, EPENDORF 5804R | 340 | | Scott Engine Civil Engineering | 6/30/2009 | EPENDORF | 10,047.38 | FISHER SCI CO LLC |
| TABLE KN410-12 W/LEG HELF HOLE B | 222 | | Scott Engine Electrical & Computer Engin | 9/1/1988 | | 10,032.00 | |
| TABLE RESEARCH RS4128 W/ISOLATIO | 246 | | Scott Engine Electrical & Computer Engin | 2/1/1990 | NEWPORT | 10,029.00 | |
| PYROK KINETIX FLEX 96-WELL TUBE READER | 334 | | Othmer Hall BPDF (Biological Process D | 4/10/2014 | PYROK | 10,005.00 | ASSOC OF CAPE COD INC |
| CUSTOM VIBRATION CONTROL SYSTEM | 12AA | | Scott Engine Electrical & Computer Engin | 3/12/2012 | HP | 10,003.02 | NEWPORT CORP |
| PSEM 0200 EFM TOOL KIT | 130.4 | | Scott Engine Mech/Materials Engr | 9/1/1997 | PARK SCIENTIFIC | 10,000.00 | |

Appendix C

Appendix C: Usage Data from the Engineering Machine Shop

Data in hand:

AY 18 Budget for the Machine Shop is

$$\$260,890 + \$90,000 \text{ (BENEFITS)} + \$10,000 \text{ operations} = \$360,890.$$

Billable projects (as per SAP)

| | |
|---------|-----------|
| 2013 | \$85,258 |
| 2014 | \$44,529 |
| 2015 | \$99,287 |
| 2016 | \$86,505 |
| 2017 | \$46,999 |
| Total | \$362,577 |
| Average | \$ 72,515 |

52 faculty supported, each with >1 jobs

720 jobs listed from 2013-2017

144 billable jobs per year.

Billed projects to UNL Faculty

| Name | Amount | # of jobs | Avg job | Notes |
|--------------|----------|-----------|----------|--|
| Admiraal | \$150 | 2 | \$75 | |
| Alexander | \$2,440 | 30 | \$81 | |
| Balkir | \$23 | 2 | \$12 | |
| Ballester | \$2,821 | 3 | \$940 | |
| Bartelt-Hunt | \$4,179 | 8 | \$522 | |
| Bonasera | \$11,668 | 5 | \$2,334 | |
| Chandra | \$20,730 | 9 | \$2,303 | |
| Cole | \$1,514 | 9 | \$168 | |
| Cui | \$1,920 | 12 | \$160 | |
| Dulling | \$21,203 | 1 | \$21,203 | Construct new winch |
| Dzenis | \$10,260 | 21 | \$489 | |
| Farritor | \$36,156 | 80 | \$452 | |
| Gogos | \$3,199 | 30 | \$107 | |
| Lewis | \$23,981 | 1 | \$23,981 | New research feed wagon, Ron Lewis, An Sci ??? |
| Lu | \$14,923 | 25 | \$597 | |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

| | | | | |
|------------|------------------|------------|--------------|--|
| Ndao | \$10,679 | 35 | \$305 | |
| Negahban | \$8,704 | 28 | \$311 | |
| Nelson | \$31,622 | 46 | \$687 | |
| Sealy | \$386 | 6 | \$64 | |
| Shield | \$3,772 | 17 | \$222 | |
| Stelling | \$3,495 | 6 | \$583 | |
| Sutter | \$21,123 | 16 | \$1,320 | |
| Terry | \$3,151 | 21 | \$150 | |
| Turner | \$7,130 | 31 | \$230 | |
| Wei | \$2,465 | 7 | \$352 | |
| Wood | \$841 | 6 | \$140 | |
| Xie | \$7,464 | 2 | \$3,732 | |
| Zhou | \$783 | 3 | \$261 | |
| Sum | \$256,780 | 462 | \$556 | |

* Plus others with small or infrequent jobs

Breakdown of time spent in FY 17 and FY 18

| Shop workload | FY 17 Hours | % FY 17 time | FY 18 Hours (Fall Semester) | % FY 18 time |
|---|-------------|--------------|-----------------------------|--------------|
| Student club projects | 557 | 11% | 242 | 7% |
| UG Lab support | 421 | 8% | 251 | 7% |
| Research support (~90% for GRA's) | 1680 | 32% | 1278 | 38% |
| Dean's Office support | 250 | 5% | 73 | 2% |
| MME Dept support | 200 | 4% | 86 | 3% |
| CVE Dept support | 18 | 0% | 4 | 0% |
| ECE Dept support | 27 | 1% | 0 | 0% |
| CBME Dept support | 0 | 0% | 0 | 0% |
| Un-assigned Misc Customer support (~80% student requests) | 1739 | 33% | 726 | 21% |
| Total hours | 5288 | 100% | 3394 | 100% |

Appendix D

Appendix D. Web-site analytics for COE pages (01/01/17-11/16/17).

| Page | Pageviews | Unique Pageviews | Avg. Time on Page | Entrances | Bounce Rate | % Exit |
|---|-----------|------------------|-------------------|-----------|-------------|--------|
| /research/robotics-and-mechatronics-lab/ | 1650 | 1216 | 64.70 | 685 | 55.60% | 37.15% |
| /research/ | 1332 | 1051 | 51.17 | 259 | 68.60% | 30.41% |
| /civil/civil-research/ | 1274 | 441 | 18.56 | 55 | 7.14% | 8.32% |
| /research/p3-partners-pollution-prevention/ | 1058 | 842 | 94.79 | 762 | 42.37% | 40.93% |
| /research/labs-and-groups/ | 991 | 751 | 59.54 | 117 | 62.93% | 19.98% |
| /ece/ece-research/ | 989 | 798 | 62.54 | 104 | 65.38% | 27.91% |
| /civil/civil-geotechnical-and-materials-engineering-research/ | 851 | 295 | 32.17 | 86 | 3.49% | 14.34% |
| /civil/civil-environmental-engineering-research/ | 617 | 236 | 38.52 | 35 | 5.88% | 10.05% |
| /research/research-contacts/ | 533 | 428 | 65.52 | 116 | 72.65% | 32.27% |
| /alexandrov/research/ | 531 | 348 | 93.35 | 13 | 33.33% | 21.09% |
| /research/robotics-and-mechatronics-lab-people/ | 504 | 357 | 33.40 | 24 | 50.00% | 12.70% |
| /durhamschool/durham-research/ | 494 | 282 | 16.82 | 21 | 52.38% | 10.12% |
| /chme/chme-research/ | 480 | 335 | 39.04 | 25 | 61.54% | 12.50% |
| /bse/research/ | 436 | 335 | 42.74 | 28 | 71.43% | 19.04% |
| /research/esrsf-equipment/ | 435 | 325 | 100.29 | 243 | 46.94% | 42.53% |
| /research/esrsf-engineering-science-research-support-facility/ | 429 | 335 | 71.86 | 146 | 63.70% | 37.53% |
| /research/research-facilities/ | 350 | 293 | 58.57 | 41 | 73.81% | 24.86% |
| /tml/research/ | 348 | 203 | 87.80 | 12 | 66.67% | 13.51% |
| /limb/research/ | 331 | 247 | 84.51 | 19 | 52.63% | 25.08% |
| /research/robotics-and-mechatronics-lab-publications/ | 255 | 214 | 94.38 | 39 | 69.23% | 36.86% |
| /nejati-lab/research/ | 254 | 205 | 22.39 | 18 | 100.00% | 14.57% |
| /research/p3-prospective-interns/ | 252 | 219 | 127.02 | 44 | 69.57% | 35.71% |
| /usda-funds-antibiotic-resistance-research/ | 240 | 178 | 72.16 | 109 | 71.82% | 52.08% |
| /http://nuengr.unl.edu/academicunits/mechanical-materials/research/labs-facilities/OrganicElect | 234 | 212 | 237.17 | 5 | 0.00% | 53.42% |
| /messengerresearch/ | 229 | 114 | 89.13 | 35 | 38.24% | 21.83% |
| /madman/mad-man-research/ | 226 | 160 | 73.33 | 5 | 20.00% | 18.58% |
| /research/robotics-and-mechatronics-lab-course-information/ | 225 | 198 | 67.24 | 81 | 60.49% | 40.00% |
| /bse/student-research/ | 203 | 163 | 34.82 | 17 | 76.47% | 15.76% |
| /complete-engineer/complete-engineer-engineering-education-and-leadership-research/ | 187 | 159 | 86.76 | 93 | 70.21% | 55.61% |
| /research/student-research-opportunities/ | 182 | 123 | 77.24 | 41 | 46.34% | 25.82% |
| /terri-norton-team-get-nsf-grant-pair-stem-education-efforts-disaster-research/ | 159 | 122 | 110.13 | 67 | 64.18% | 52.83% |
| /unl-robotics-research/ | 158 | 111 | 57.59 | 69 | 60.56% | 40.51% |
| /http://engineering.unl.edu/downloads/research/P3/P3_Application_2017.pdf | 157 | 141 | 322.00 | 6 | 0.00% | 65.61% |
| /research/esrsf-conventional-shop-services/ | 154 | 121 | 60.68 | 34 | 60.00% | 36.36% |
| /research/esrsf-projects/ | 145 | 116 | 44.17 | 31 | 61.29% | 27.59% |
| /bsen/bse-student-research/ | 140 | 116 | 27.49 | 63 | 71.43% | 47.14% |
| /nanomatgroup/research/ | 138 | 88 | 23.32 | 1 | 0.00% | 1.45% |
| /messengerresearch/team/ | 127 | 81 | 57.68 | 30 | 66.67% | 31.50% |
| /iversonlab/research/ | 124 | 96 | 30.98 | 2 | 50.00% | 12.10% |
| /mmdf/research/ | 122 | 92 | 7.69 | 0 | 0.00% | 1.64% |
| /research/robotics-and-mechatronics-lab-sponsors/ | 119 | 93 | 43.67 | 27 | 66.67% | 31.93% |
| /research/esrsf-design/ | 112 | 99 | 31.77 | 30 | 61.29% | 33.04% |
| /http://129.93.14.93/academicunits/chemical-engineering/research/focuslab/kidambi_lab/HOME | 100 | 95 | 129.46 | 1 | 0.00% | 26.00% |
| /jung-yul-lim-earns-pilot-program-grant-unmc-nerve-regeneration-research/ | 92 | 72 | 63.50 | 53 | 56.60% | 58.70% |
| /research/p3-impact-and-results/ | 88 | 64 | 93.06 | 14 | 42.86% | 25.00% |
| /research/p2-pollution-prevention-guidelines/ | 78 | 68 | 106.30 | 37 | 67.57% | 41.03% |
| /messengerresearch/opportunities/ | 77 | 40 | 60.88 | 1 | 0.00% | 10.39% |
| /messengerresearch/research/ | 74 | 27 | 61.36 | 1 | 0.00% | 5.41% |
| /biba/biba-research/ | 71 | 35 | 18.23 | 2 | 50.00% | 7.04% |
| /leilab/lei-research/ | 66 | 20 | 45.30 | 0 | 0.00% | 4.55% |
| /agen/agen-student-research/ | 64 | 51 | 29.81 | 17 | 82.35% | 32.81% |
| /downloads/research/P3/P3_Application_2016.pdf | 62 | 56 | 234.71 | 1 | 0.00% | 72.58% |
| /research/p3-pollution-prevention/ | 62 | 52 | 34.73 | 14 | 42.86% | 17.74% |
| /http://engineering.unl.edu/downloads/research/P3/P3_Business_brochure_2016.pdf | 53 | 53 | 137.94 | 1 | 0.00% | 39.62% |
| /cmsvl/cmsvl-research/ | 50 | 28 | 20.34 | 2 | 50.00% | 6.00% |
| /research/p3-publications/ | 50 | 42 | 47.19 | 3 | 25.00% | 16.00% |
| /messengerresearch/updates/ | 46 | 22 | 18.96 | 0 | 0.00% | 2.17% |
| /messengerresearch/outreach/ | 45 | 19 | 75.24 | 1 | 100.00% | 17.78% |
| /civil/civil-linzell-research/ | 42 | 3 | 32.48 | 0 | 0.00% | 0.00% |
| /http://engineering.unl.edu/downloads/research/P3/2016-P3-Understandings-Expectations.pdf | 29 | 28 | 101.22 | 0 | 0.00% | 37.93% |
| /downloads/research/P3/2016_Overviews/DR-Porath_Project_Overview.pdf | 28 | 21 | 136.41 | 1 | 0.00% | 3.57% |
| /downloads/research/P3/P3_Application_2017.pdf | 28 | 22 | 283.12 | 0 | 0.00% | 39.29% |
| /downloads/research/P3/2016_Overviews/DR-Nguyen_Project_Overview.pdf | 24 | 21 | 52.10 | 0 | 0.00% | 16.67% |
| /sicking-honored-white-house-transportation-research/ | 24 | 18 | 1.00 | 18 | 66.67% | 75.00% |
| /downloads/research/groundwater/GWOrderForm.pdf | 23 | 23 | 2.26 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2016_Overviews/DR-Boschult_Project_Overview.pdf | 23 | 20 | 107.20 | 1 | 0.00% | 13.04% |
| /downloads/research/P3/2016_Overviews/DR-Kinser_Project_Overview.pdf | 22 | 21 | 72.53 | 1 | 0.00% | 13.64% |
| /pannier-panel-brief-congress-importance-funding-research/ | 20 | 17 | 134.54 | 5 | 80.00% | 35.00% |
| /wachs/research/ | 20 | 6 | 46.25 | 0 | 0.00% | 0.00% |
| /egrl/research/ | 18 | 5 | 8.88 | 1 | 0.00% | 11.11% |
| /research/p3-summary-motivations-sustainability-and-persistence-benefits/ | 18 | 15 | 48.56 | 13 | 61.54% | 50.00% |

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Appendix D. Web-site analytics for COE pages (01/01/17-11/16/17).

| Page | Pageviews | Unique Pageviews | Avg. Time on Page | Entrances | Bounce Rate | % Exit |
|---|-----------|------------------|-------------------|-----------|-------------|---------|
| /research/p3-2010-project-overview/ | 17 | 13 | 56.15 | 3 | 33.33% | 23.53% |
| /research/p3-2012-project-overview/ | 17 | 17 | 15.07 | 3 | 33.33% | 17.65% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 16 | 15 | 31.00 | 15 | 86.67% | 87.50% |
| /downloads/research/P3/2016_Overviews/DR-HansenSamuel_Project_Overview.pdf | 16 | 15 | 323.45 | 0 | 0.00% | 31.25% |
| /downloads/research/P3/2016_Overviews/DR-Bowman_Project_Overview.pdf | 15 | 15 | 61.80 | 0 | 0.00% | 33.33% |
| /downloads/research/P3/2016_Overviews/DR-Miccek_Project_Overview.pdf | 15 | 13 | 72.45 | 0 | 0.00% | 26.67% |
| /research/p3-summary-lessons-learned-concerning-impact-assessment/ | 15 | 14 | 114.64 | 13 | 21.43% | 26.67% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf&from=http://engineeri | 14 | 14 | 41.30 | 0 | 0.00% | 28.57% |
| /downloads/research/P3/2016_Overviews/DR-Meyer_Project_Overview.pdf | 14 | 14 | 47.77 | 0 | 0.00% | 7.14% |
| /research/p3-2013-project-overview/ | 14 | 13 | 12.18 | 2 | 50.00% | 21.43% |
| /unl-engineer-places-navy-challenge-earns-100000-research/ | 14 | 14 | 133.40 | 0 | 0.00% | 28.57% |
| /403.html?page=/durhamschool/durham-construction-safety/&from=https://engineering.unl.edu | 13 | 11 | 8.38 | 0 | 0.00% | 0.00% |
| /403.html?page=/durhamschool/durham-modeling-simulation-and-visualization/&from=https://e | 13 | 11 | 6.50 | 0 | 0.00% | 23.08% |
| /404.html?page=/research/chandra.shtml&from=https://en.wikipedia.org/ | 13 | 13 | 355.50 | 12 | 75.00% | 69.23% |
| /downloads/research/P3/2016_Overviews/DR-Davis_Project_Overview.pdf | 13 | 13 | 147.91 | 0 | 0.00% | 15.38% |
| /research/p3-2011-project-overview/ | 13 | 11 | 125.10 | 2 | 100.00% | 23.08% |
| /403.html?page=/durhamschool/durham-risk-management-and-decision-making/&from=https:// | 12 | 6 | 6.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 11 | 9 | 102.00 | 9 | 88.89% | 81.82% |
| /404.html?page=/academicunits/electricalengineering/research/&from=http://engineering.unl.ec | 11 | 10 | 14.91 | 0 | 0.00% | 0.00% |
| /404.html?page=/durhamschool/research/acoustics/&from=http://www.acs.psu.edu/NewsInfor | 11 | 8 | 266.43 | 8 | 37.50% | 36.36% |
| /404.html?page=/research/traumamechanics/BMML/mchafi.shtml&from=http://www.iranchaf. | 11 | 9 | 159.33 | 9 | 44.44% | 72.73% |
| /http://nuengr.unl.edu/academicunits/mechanical-materials/research/labs-facilities/OrganicElect | 11 | 11 | 507.33 | 1 | 0.00% | 45.45% |
| /research/p3-intensive-environmental-sustainability-education/ | 11 | 10 | 9.80 | 7 | 71.43% | 54.55% |
| /usda-funds-antibiotic-resistant-research/ | 11 | 4 | 171.25 | 0 | 0.00% | 27.27% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 10 | 9 | 223.00 | 9 | 88.89% | 90.00% |
| /downloads/research/P3/2013-busi_statement_of_interest.pdf | 10 | 10 | 178.57 | 0 | 0.00% | 30.00% |
| /http://129.93.14.93/academicunits/mechanical-materials/research/labs-facilities/OrganicElectro | 10 | 8 | 330.71 | 0 | 0.00% | 30.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/LessonsLearnedConcerningImp | 10 | 10 | 138.00 | 1 | 0.00% | 90.00% |
| /downloads/research/P3/2013-Busi_Project_Develop_Wrksht.pdf | 9 | 9 | 18.57 | 0 | 0.00% | 22.22% |
| /downloads/research/P3/2016_Overviews/DR-Philipose_Project_Overview.pdf | 9 | 9 | 34.00 | 0 | 0.00% | 22.22% |
| /downloads/research/P3/p2PPGGuidelines/Compressed Air System Guideline Final.pdf | 8 | 8 | 13.67 | 0 | 0.00% | 62.50% |
| /research/p3-summary-indirect-benefits-p2/ | 8 | 8 | 36.00 | 6 | 66.67% | 62.50% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from=http://m.facebook.com | 7 | 5 | 18.00 | 5 | 40.00% | 71.43% |
| /downloads/research/P3/2015_Overviews/XingtaoWangProjectDescription.pdf | 7 | 7 | 38.40 | 0 | 0.00% | 28.57% |
| /downloads/research/P3/2016_Overviews/DR-Zelt_Project_Overview.pdf | 7 | 7 | 42.71 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2016-P3-Understandings-Expectations.pdf | 7 | 7 | 174.20 | 0 | 0.00% | 28.57% |
| /http://www.math.unl.edu/research/seminars/ | 7 | 6 | 55.50 | 0 | 0.00% | 42.86% |
| /research/p3-impact-summary/ | 7 | 6 | 16.50 | 5 | 80.00% | 71.43% |
| /robotics-unl-celebrate-robots-and-research/ | 7 | 7 | 0.00 | 7 | 100.00% | 100.00% |
| /403.html?page=/usda-funds-antibiotic-resistant-research/&from= | 6 | 5 | 18.00 | 5 | 20.00% | 50.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 6 | 6 | 0.00 | 6 | 100.00% | 100.00% |
| /404.html?page=/research/chandra.shtml&from= | 6 | 5 | 13.00 | 4 | 50.00% | 33.33% |
| /404.html?page=/research/ChandraDownloads/courses/eml3004c/Fracturemechanics-ppt/ch5-EI | 6 | 5 | 27.50 | 5 | 60.00% | 66.67% |
| /downloads/research/P3/p2PPGGuidelines/Electric Hand Dryers Final.pdf | 6 | 6 | 409.00 | 0 | 0.00% | 50.00% |
| /downloads/research/P3/P3_Busi-InternProjAgreemnt.pdf | 6 | 6 | 25.00 | 0 | 0.00% | 33.33% |
| /research/p3-partners-pollution-prevention-right-column/ | 6 | 2 | 15.67 | 0 | 0.00% | 0.00% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from= | 5 | 4 | 33.67 | 4 | 25.00% | 40.00% |
| /404.html?page=/node/560/&from=http://engineering.unl.edu/unl-robotics-research/ | 5 | 4 | 3.00 | 0 | 0.00% | 20.00% |
| /404.html?page=/specialty-units/mwrsf/&from=http://www.dot.state.mn.us/research/pooled.hti | 5 | 2 | 6.00 | 2 | 0.00% | 40.00% |
| /downloads/research/P3/2016_Overviews/DR-Hansen_David_Project_Overview.pdf | 5 | 5 | 34.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/p2PPGGuidelines/06_Domestic Water Use Guideline final.pdf | 5 | 5 | 2.50 | 0 | 0.00% | 60.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/MotivationsOfProgramPartner: | 5 | 5 | 82.00 | 0 | 0.00% | 60.00% |
| /research/p3-pollution-prevention-guidelines/ | 5 | 1 | 52.00 | 0 | 0.00% | 0.00% |
| /403.html?page=/durhamschool/durham-modeling-simulation-and-visualization/&from=http://er | 4 | 4 | 6.00 | 0 | 0.00% | 25.00% |
| /403.html?page=/durhamschool/durham-risk-management-and-decision-making/&from=http://e | 4 | 4 | 31.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/academicunits/electricalengineering/research/&from=http://www.cleantroom.t | 4 | 3 | 72.00 | 3 | 66.67% | 75.00% |
| /404.html?page=/error404.shtml&from=http://nuengr.unl.edu/academicunits/mechanical-mate | 4 | 3 | 45.00 | 2 | 0.00% | 25.00% |
| /404.html?page=/research/robots/publicationdocs/Zhang_Masters_Thesis_2005.pdf/&from= | 4 | 4 | 0.00 | 4 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/BMML/&from=https://en.wikipedia.org/ | 4 | 4 | 8.00 | 2 | 50.00% | 75.00% |
| /404.html?page=/research/traumamechanics/BMML/downloads/Final_Paper_ASME_IMECE2009 | 4 | 4 | 0.00 | 4 | 100.00% | 100.00% |
| /cse-vuran-among-three-unl-faculty-honored-research/ | 4 | 4 | 0.00 | 4 | 100.00% | 100.00% |
| /downloads/research/P3/2014_Overviews/Bro-Project Overview e.pdf | 4 | 4 | 34.33 | 0 | 0.00% | 25.00% |
| /downloads/research/P3/2015_Overviews/DavidHansenProjectOverview.pdf | 4 | 4 | 29.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2016_Overviews/DR-Rix_P3_Project_Overview.pdf | 4 | 4 | 25.00 | 0 | 0.00% | 0.00% |
| /https://www.boystownhospital.org/research/COBRE/Pages/default.aspx | 4 | 4 | 1000.00 | 0 | 0.00% | 75.00% |
| /research/p3-motivations-summary/ | 4 | 4 | 0.00 | 3 | 100.00% | 100.00% |
| /research/p3-quantifying-and-comparing-p2-programs-benefits/ | 4 | 3 | 118.25 | 0 | 0.00% | 0.00% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from=https://t.co/SAtxS91g0F?amf | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 3 | 2 | 80.00 | 2 | 50.00% | 66.67% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |

TASK FORCE ON RESEARCH SUPPORT: FINAL REPORT

Appendix D. Web-site analytics for COE pages (01/01/17-11/16/17).

| Page | Pageviews | Unique Pageviews | Avg. Time on Page | Entrances | Bounce Rate | % Exit |
|--|-----------|------------------|-------------------|-----------|-------------|---------|
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf&from=http://engineeri | 3 | 3 | 65.50 | 0 | 0.00% | 33.33% |
| /404.html?page=/ianr/biological-systems-engineering/p2-guidelines/reducing-solvent-use-parts-v | 3 | 3 | 28.00 | 0 | 0.00% | 66.67% |
| /404.html?page=/research/bm3/TrillionARAMIS.shtml&from=http://bm3.unl.edu/bose-electrofc | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/research/chandra.shtml&from=https://en.wikipedia.org | 3 | 1 | 22.33 | 0 | 0.00% | 0.00% |
| /404.html?page=/research/ChandraDownloads/courses/eml4536/jan08-02/Chapter1new.ppt/&f | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/research/ChandraDownloads/mandm/nc2004.ppt/&from=http://www.powersf | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/AMDRL/asogbesan.shtml&from=http://m.faceboo | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/BMML/mchafi.shtml/&from=http://iranconf.blogfa | 3 | 2 | 16.00 | 2 | 50.00% | 33.33% |
| /404.html?page=/research/traumamechanics/downloads/conference/ECCM-2010.pdf/&from=htt | 3 | 3 | 0.00 | 3 | 100.00% | 100.00% |
| /downloads/research/P3/2012_Overviews/SellersProjectOverview2012.pdf | 3 | 3 | 11.00 | 0 | 0.00% | 66.67% |
| /downloads/research/P3/p2PPGGuidelines/07_Janitorial Water Use Guideline final.pdf | 3 | 3 | 314.33 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/p2PPGGuidelines/09_Landscape Water Use Guideline final9-21.pdf | 3 | 3 | 3.00 | 0 | 0.00% | 66.67% |
| /downloads/research/P3/p2PPGGuidelines/Occupancy Sensors Guideline final.pdf | 3 | 3 | 19.00 | 0 | 0.00% | 33.33% |
| /http://architecture.unl.edu/programs/research/ZNETH.shtml | 3 | 3 | 4.50 | 0 | 0.00% | 33.33% |
| /http://waterforfood.nebraska.edu/blog/2016/09/19/burdette-barker-awarded-prestigious-fello | 3 | 3 | 640.00 | 1 | 0.00% | 33.33% |
| /niu/niu-research/ | 3 | 1 | 7.67 | 0 | 0.00% | 0.00% |
| /sdr/sdr-research/ | 3 | 1 | 17.33 | 0 | 0.00% | 0.00% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from=http://newsroom.unl.edu/an | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from=https://www.facebook.com/ | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/civil/&from=http://matc.unl.edu/research/sponsors.php | 2 | 1 | 43.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/academicunits/electricalengineering/research/&from= | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/electricalengineering/research/&from=http://www.cleanroom.t | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/graduate/fellowship-assistantships.shtml/ | 2 | 2 | 464.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs/&from= | 2 | 1 | 14.00 | 1 | 0.00% | 50.00% |
| /404.html?page=/research/bm3/&from=http://huanggroup.unl.edu/sponsors.html | 2 | 2 | 149.00 | 2 | 50.00% | 50.00% |
| /404.html?page=/research/bm3/&from=http://www.huanggroup.unl.edu/sponsors.html | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/research/pannierlab/&from=http://m.facebook.com/ | 2 | 1 | 9.00 | 1 | 0.00% | 50.00% |
| /404.html?page=/research/pubs/2004 TPMJ article.pdf/&from= | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/research/robots/medical.shtml/&from= | 2 | 2 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/AMDRL/asogbesan.shtml/&from= | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/AMDRL/sgmhossain.shtml/&from=http://cmanti.c | 2 | 2 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/research/traumamechanics/BMML/&from= | 2 | 2 | 32.00 | 1 | 0.00% | 50.00% |
| /404.html?page=/research/traumamechanics/BMML/mchafi.shtml/&from=http://www.iranchaf.i | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /downloads/research/P3/2012_Overviews/Martinez-ProjectOverview2012.pdf | 2 | 2 | 21.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2012_Overviews/Miller-ProjectOverview2012.pdf | 2 | 2 | 29.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2012_Overviews/Speranza-ProjectOverview2012.pdf | 2 | 1 | 23.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2012_Overviews/Wachal-ProjectOverview2012.pdf | 2 | 2 | 38.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Cope-ProjectOverview.pdf | 2 | 2 | 14.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Lush-ProjectOverview.pdf | 2 | 2 | 57.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Schlender-ProjectOverview.pdf | 2 | 2 | 68.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2014_Overviews/Joseph-Overview.pdf | 2 | 2 | 62.00 | 0 | 0.00% | 50.00% |
| /downloads/research/P3/2014_Overviews/Wallin-Overview.pdf | 2 | 2 | 57.00 | 0 | 0.00% | 50.00% |
| /downloads/research/P3/2014_Overviews/Wallis-Overview.pdf | 2 | 2 | 38.00 | 0 | 0.00% | 50.00% |
| /downloads/research/P3/2015_Overviews/AaronRatiganProjectOverview.pdf | 2 | 2 | 123.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2015_Overviews/SamGhormleyProjectOverview.pdf | 2 | 2 | 56.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2015_Overviews/TannerGosdaProjectOverview.pdf | 2 | 2 | 25.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/p2PPGGuidelines/05_Lighting System Guideline final.pdf | 2 | 2 | 33.50 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/p2PPGGuidelines/08_Office Waste_Energy Guideline final9-21.pdf | 2 | 2 | 8.50 | 0 | 0.00% | 0.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/IndirectBenefitsOfP2Technical/ | 2 | 2 | 633.00 | 0 | 0.00% | 50.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/QuantifyingAndComparingP2Pi | 2 | 2 | 97.00 | 0 | 0.00% | 0.00% |
| /http://engineering.unl.edu/research/research-contacts/ | 2 | 2 | 0.00 | 0 | 0.00% | 100.00% |
| /https://engineering.unl.edu/downloads/research/P3/P3_Business_brochure_2016.pdf | 2 | 2 | 9.00 | 0 | 0.00% | 50.00% |
| /limb/limb-research/ | 2 | 1 | 22.00 | 0 | 0.00% | 0.00% |
| /mesoscale/research/ | 2 | 2 | 0.00 | 2 | 100.00% | 100.00% |
| /sdr/research/ | 2 | 1 | 1.50 | 0 | 0.00% | 0.00% |
| /search?q=cache:http://engineering.unl.edu/research/&gws_rd=cr&ei=eNmQWdTWGYScmwGe0 | 2 | 1 | 60.50 | 1 | 0.00% | 0.00% |
| /search?q=cache:http://engineering.unl.edu/research/labs-and-groups/&gws_rd=cr&ei=0tqQWcl | 2 | 1 | 1521.00 | 1 | 0.00% | 50.00% |
| /translate_c?depth=1&hl=fa&prev=search&url=translate.google.com&sl=en&sp=nmt4&u=http:// | 2 | 1 | 1.00 | 0 | 0.00% | 50.00% |
| /403.html?page=/durhamschool/durham-construction-safety/&from=http://engineering.unl.edu/ | 1 | 1 | 2.00 | 0 | 0.00% | 0.00% |
| /403.html?page=/research/research-facilities/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /403.html?page=/usda-funds-antibiotic-resistance-research/&from=https://t.co/SAtxS91g0F | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /403.html?page=/user/logout/&from=http://engineering.unl.edu/research/p3-partners-pollution | 1 | 1 | 8.00 | 0 | 0.00% | 0.00% |
| /403.html?page=/user/logout/&from=https://engineering.unl.edu/tml/research/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/CHME_89 | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/chemical-engineering/research/focuslab/kidambi_lab/HOME.ht | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/chemical-engineering/research/MesoscaleEngineeringLab/&f | 1 | 1 | 1.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/academicunits/chemical-engineering/research/MesoscaleEngineeringLab/disco | 1 | 1 | 6.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/academicunits/chemical-engineering/research/MesoscaleEngineeringLab/video | 1 | 1 | 14.00 | 0 | 0.00% | 0.00% |

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Appendix D. Web-site analytics for COE pages (01/01/17-11/16/17).

| Page | Pageviews | Unique Pageviews | Avg. Time on Page | Entrances | Bounce Rate | % Exit |
|--|-----------|------------------|-------------------|-----------|-------------|---------|
| /404.html?page=/academicunits/civil/research/hunt/faculty.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/electricalengineering/research/PESL/Home.html/&from= | 1 | 1 | 5.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/academicunits/electricalengineering/research/PESL/Home.html/&from=http:// | 1 | 1 | 12.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/academicunits/electricalengineering/research/PESL/Home.html/&from=http:// | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/electricalengineering/research/PESL/People.html/&from= | 1 | 1 | 16.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanical-materials/research/labs-facilities/OrganicElectronics | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanicalengineering/research/research-centers/OrganicElect | 1 | 1 | 21.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/academicunits/mechanicalengineering/research/research-centers/OrganicElect | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/academicunits/mechanicalengineering/research/research-centers/OrganicElect | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from= | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 18.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 8.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 6.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 17.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/downloads/research/groundwater/GWOrderForm.pdf/&from=http://engineeri | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/downloads/research/P3/2013_Understandings&Expectations.pdf/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/downloads/research/P3/p2PPGuidelines/Electric Hand Dryers Final.pdf/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/downloads/research/P3/p2PPGuidelines/Electric Hand Dryers/&from= | 1 | 1 | 0.00 | 1 | 0.00% | 100.00% |
| /404.html?page=/durhamschool/404.html/?page=/durhamschool/research/acoustics/&from=htt | 1 | 1 | 48.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/durhamschool/research/acoustics/&from=http://www.acs.ps.u.edu/NewsInfor | 1 | 1 | 17.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/durhamschool/research/BIMLab/Research3.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/durhamschool/research/rojas_research.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/node/560/&from=https://engineering.unl.edu/unl-robotics-research/ | 1 | 1 | 2.00 | 0 | 0.00% | 0.00% |
| /404.html?page=/research/bm3/Nanoindenter.shtml/&from= | 1 | 1 | 0.00 | 1 | 0.00% | 100.00% |
| /404.html?page=/research/bm3/SEM.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/ChandraDownloads/courses/eml3004c/Fracturemechanics-ppt/&from | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/research/esrs-engineering-science-research-support-facility/)/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/facilities.shtml/&from=http://blue.lins.fju.edu.tw/~lin/mediser/nsc/e | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/p2-pollution-prevention-guidelines/&from= | 1 | 1 | 27.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/research/p3/&from= | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /404.html?page=/research/pannierlab/&from=https://www.linkedin.com/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/pannierlab/links.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/pubs/01675.pdf/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/pubs/presentations/A Study of the Effect of the Myers-Briggs.ppt/&fr | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/robots/faculty/faritor.shtml/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/robots/medical.shtml/&from= | 1 | 1 | 35.00 | 1 | 0.00% | 0.00% |
| /404.html?page=/research/robots/publicationdocs/clarkbj_GNSS_06.pdf/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/robots/publicationdocs/ICRA02_Mumm.pdf/&from= | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/robots/publicationdocs/Piezo_Power_Gen.pdf/&from=https://www.r | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/AMDRL/&from=https://www.linkedin.com/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/AMDRL/asogbesan.shtml/&from=http://lm.facebo | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/BMML/mchafi.shtml/&from=http://iranhaf.blogfa | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/BMML/mchafi.shtml/&from=http://www.iranhaf.i | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /404.html?page=/research/traumamechanics/downloads/papers/2012 - Mechanics of blast loadi | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /chme/chme-employment-post-doctoral-research/ | 1 | 1 | 75.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2010_Overviews/Dalton-Project Overview_web.pdf | 1 | 1 | 1432.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2010_Overviews/Lohmeier-ProjectOverview_web.pdf | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /downloads/research/P3/2011_Overviews/Mages-ProjectOverview-2011.pdf | 1 | 1 | 27.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2011_Overviews/Michelsen-ProjectOverview-2011.pdf | 1 | 1 | 19.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2011_Overviews/Peterson-ProjectOverview-2011.pdf | 1 | 1 | 24.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2011_Overviews/Scheel-ProjectOverview-2011.pdf | 1 | 1 | 88.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2012_Overviews/Gakuria-ProjectOverview2012.pdf | 1 | 1 | 16.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2012_Overviews/Kelilova-ProjectOverview2012.pdf | 1 | 1 | 8.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Frahm-ProjectOverview.pdf | 1 | 1 | 26.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Graham-ProjectOverview.pdf | 1 | 1 | 8.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Hinds-ProjectOverview.pdf | 1 | 1 | 10.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Metzger-ProjectOverview.pdf | 1 | 1 | 10.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Seier-ProjectOverview.pdf | 1 | 1 | 13.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2013_Overviews/Sorensen-ProjectOverview.pdf | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /downloads/research/P3/2014_Overviews/Alves-Project Overview Felipe Alves e.pdf | 1 | 1 | 12.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2014_Overviews/Estrada-Project Overview e.pdf | 1 | 1 | 23.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2015_Overviews/AlexBrueiningProjectOverview.pdf | 1 | 1 | 105.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/2015_Overviews/MatthewThompsonProjectOverview.pdf | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /downloads/research/P3/2015_Overviews/WilLageProjectOverview.pdf | 1 | 1 | 194.00 | 0 | 0.00% | 0.00% |
| /downloads/research/P3/p2PPGuidelines/Aerosol Cans Guideline final.pdf | 1 | 1 | 3.00 | 0 | 0.00% | 0.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/EconomicAndEnvironmentalIm | 1 | 1 | 219.00 | 0 | 0.00% | 0.00% |
| /http://engineering.unl.edu/downloads/research/P3/publications/IntensiveEnvironmentalSustain | 1 | 1 | 55.00 | 0 | 0.00% | 0.00% |

Appendix D. Web-site analytics for COE pages (01/01/17-11/16/17).

| Page | Pageviews | Unique Pageviews | Avg. Time on Page | Entrances | Bounce Rate | % Exit |
|--|-----------|------------------|-------------------|-----------|-------------|---------|
| /http://engineering.unl.edu/research/ | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /http://engineering.unl.edu/research/labs-and-groups/ | 1 | 1 | 0.00 | 0 | 0.00% | 100.00% |
| /https://engineering.unl.edu/downloads/research/P3/2016-P3-Understandings-Expectations.pdf | 1 | 1 | 35.00 | 0 | 0.00% | 0.00% |
| /https://engineering.unl.edu/downloads/research/P3/P3_Application_2017.pdf | 1 | 1 | 23.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messer-opportunities/ | 1 | 1 | 15.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messer-outreach/ | 1 | 1 | 12.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messer-research/ | 1 | 1 | 18.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messer-team/ | 1 | 1 | 15.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messer-updates/ | 1 | 1 | 12.00 | 0 | 0.00% | 0.00% |
| /messerrresearch/messertopimage/ | 1 | 1 | 19.00 | 0 | 0.00% | 0.00% |
| /mmfd/mmfd-research/ | 1 | 1 | 16.00 | 0 | 0.00% | 0.00% |
| /niu/research/ | 1 | 1 | 2.00 | 0 | 0.00% | 0.00% |
| /nsf-career-award-boosts-yus-network-visualization-research/ | 1 | 1 | 58.00 | 0 | 0.00% | 0.00% |
| /research/esrsf-engineering-science-research-support-facility/?__ufps=689768 | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /research/example-webform-all-fields-included/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /research/p3-2007-project-overview/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /research/research-current-content/ | 1 | 1 | 0.00 | 1 | 100.00% | 100.00% |
| /translate_c?depth=1&hl=pl&prev=search&rurl=translate.google.pl&sl=en&sp=nm4&u=http://e | 1 | 1 | 6.00 | 1 | 0.00% | 0.00% |
| /user/?destination=research/bm3/calendar.shtml | 1 | 1 | 61.00 | 0 | 0.00% | 0.00% |
| /wachs/wachs-research/ | 1 | 1 | 11.00 | 0 | 0.00% | 0.00% |