

UNIVERSITY OF KANSAS
CENTER FOR RESEARCH, INC.
(A Component Unit of the University of Kansas)

FINANCIAL STATEMENTS
June 30, 2018 and 2017

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
Lawrence, Kansas

FINANCIAL STATEMENTS
June 30, 2018 and 2017

CONTENTS

INDEPENDENT AUDITOR'S REPORT	1
FINANCIAL STATEMENTS	
STATEMENTS OF FINANCIAL POSITION	3
STATEMENTS OF ACTIVITIES.....	4
STATEMENTS OF CASH FLOWS.....	6
NOTES TO FINANCIAL STATEMENTS	7
SUPPLEMENTARY INFORMATION	
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS	20
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS.....	43
INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH <i>GOVERNMENT AUDITING STANDARDS</i>	48
INDEPENDENT AUDITOR'S REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM; REPORT ON INTERNAL CONTROL OVER COMPLIANCE	50
SCHEDULE OF FINDINGS AND QUESTIONED COSTS.....	52

INDEPENDENT AUDITOR'S REPORT

Board of Trustees
University of Kansas Center for Research, Inc.
Lawrence, Kansas

Report on the Financial Statements

We have audited the accompanying financial statements of the University of Kansas Center for Research, Inc., which comprise the statements of financial position as of June 30, 2018 and 2017, and the related statements of activities, and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

(Continued)

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the University of Kansas Center for Research, Inc. as of June 30, 2018 and 2017, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matter

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying Schedule of Expenditures of Federal Awards, as required by Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* is presented for the purposes of additional analysis and is not a required part of the financial statements. The information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain other procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Schedule of Expenditures of Federal Awards is fairly stated, in all material respects, in relation to the financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 8, 2018 on our consideration of the University of Kansas Center for Research, Inc.'s internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University of Kansas Center for Research, Inc.'s internal control over financial reporting and compliance.

Crowe LLP

Crowe LLP

Indianapolis, Indiana
October 8, 2018

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENTS OF FINANCIAL POSITION
June 30, 2018 and 2017

	<u>2018</u>	<u>2017</u>
Assets		
Current assets		
Cash and cash equivalents	\$ 17,340,057	\$ 21,814,308
Current investments	47,293,902	42,423,320
Accounts receivable, net		
Federal	15,982,002	14,370,233
State	2,968,486	2,646,092
Other	<u>6,197,620</u>	<u>8,032,402</u>
Total accounts receivable	<u>25,148,108</u>	<u>25,048,727</u>
Note receivable, net – current	99,886	54,059
Prepaid expenses	<u>263,721</u>	<u>135,176</u>
Total current assets	<u>90,145,674</u>	<u>89,475,590</u>
Property and equipment, net	18,257,166	17,949,130
Buildings and equipment in progress	<u>1,117,079</u>	<u>1,191,243</u>
Total property and equipment	<u>19,374,245</u>	<u>19,140,373</u>
Long-term investments	7,272,063	7,036,837
Notes receivable, net	<u>4,675,752</u>	<u>982,172</u>
Total assets	<u>\$ 121,467,734</u>	<u>\$ 116,634,972</u>
 Liabilities and Net Assets		
Current liabilities		
Accounts payable and accrued expenses	\$ 16,757,145	\$ 17,744,941
Bonds payable, net - current	3,437,841	4,114,682
Note payable – current	613,213	-
Assets held for others	7,936,933	8,087,955
Deferred revenues - sponsored research		
Federal	627,189	909,625
State	788,003	1,290,900
Other	<u>5,100,558</u>	<u>7,092,498</u>
Total deferred revenues	<u>6,515,750</u>	<u>9,293,023</u>
Total current liabilities	<u>35,260,882</u>	<u>39,240,601</u>
Note payable	5,782,717	-
Bonds payable, net	<u>22,895,609</u>	<u>26,326,426</u>
Total liabilities	<u>63,939,208</u>	<u>65,567,027</u>
Net Assets		
Unrestricted	50,258,182	44,032,827
Temporarily restricted	1,274,338	1,039,112
Permanently restricted	<u>5,996,006</u>	<u>5,996,006</u>
Total net assets	<u>57,528,526</u>	<u>51,067,945</u>
Total liabilities and net assets	<u>\$ 121,467,734</u>	<u>\$ 116,634,972</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENT OF ACTIVITIES
Year ended June 30, 2018

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Revenues, Gains, and Other Support				
Direct research income	\$ 108,449,843	\$ -	\$ -	\$ 108,449,843
Facilities & administrative (F&A) revenue	<u>24,917,217</u>	<u>-</u>	<u>-</u>	<u>24,917,217</u>
	<u>133,367,060</u>	<u>-</u>	<u>-</u>	<u>133,367,060</u>
Service centers	17,096,453	-	-	17,096,453
Royalties	4,350,611	-	-	4,350,611
Investment returns, net	2,005,757	587,927	-	2,593,684
Other income	447,628	-	-	447,628
Net assets released from restriction	<u>352,701</u>	<u>(352,701)</u>	<u>-</u>	<u>-</u>
Total revenues, gains and other support	<u>157,620,210</u>	<u>235,226</u>	<u>-</u>	<u>157,855,436</u>
Expenses				
Direct research expenses	111,946,739	-	-	111,946,739
Capitalized expenses for property and equipment	<u>(2,947,933)</u>	<u>-</u>	<u>-</u>	<u>(2,947,933)</u>
	<u>108,998,806</u>	<u>-</u>	<u>-</u>	<u>108,998,806</u>
Management and general expenses				
University support	4,380,074	-	-	4,380,074
Research admin., unit support	14,614,208	-	-	14,614,208
Matching costs	882,557	-	-	882,557
Interest expense-bonds	<u>727,151</u>	<u>-</u>	<u>-</u>	<u>727,151</u>
Total management and general expenses	20,603,990	-	-	20,603,990
Research unit/school expenses	2,523,052	-	-	2,523,052
Service centers	7,864,925	-	-	7,864,925
Other programs services	5,551,923	-	-	5,551,923
Depreciation	5,063,388	-	-	5,063,388
Loss on disposal of assets	<u>256,772</u>	<u>-</u>	<u>-</u>	<u>256,772</u>
Total expenses	<u>150,862,856</u>	<u>-</u>	<u>-</u>	<u>150,862,856</u>
Change in net assets before transfers	6,757,354	235,226	-	6,992,580
Transfers to University	<u>(531,999)</u>	<u>-</u>	<u>-</u>	<u>(531,999)</u>
Change in net assets	6,225,355	235,226	-	6,460,581
Net assets, beginning of year	<u>44,032,827</u>	<u>1,039,112</u>	<u>5,996,006</u>	<u>51,067,945</u>
Net assets, end of year	<u>\$ 50,258,182</u>	<u>\$ 1,274,338</u>	<u>\$ 5,996,006</u>	<u>\$ 57,528,526</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENT OF ACTIVITIES
Year ended June 30, 2017

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
Revenues, Gains, and Other Support				
Direct research income	\$ 112,678,891	\$ -	\$ -	\$ 112,678,891
Facilities & administrative (F&A) revenue	<u>23,560,170</u>	<u>-</u>	<u>-</u>	<u>23,560,170</u>
	<u>136,239,061</u>	<u>-</u>	<u>-</u>	<u>136,239,061</u>
Service centers	9,856,154			9,856,154
Royalties	4,682,332	-	-	4,682,332
Donation of equipment – non project funds	84,730	-	-	84,730
Investment returns, net	2,951,617	715,074	-	3,666,691
Other income	1,419,355	-	-	1,419,355
Net assets released from restriction	<u>282,861</u>	<u>(282,861)</u>	<u>-</u>	<u>-</u>
Total revenues, gains and other support	<u>155,516,110</u>	<u>432,213</u>	<u>-</u>	<u>155,948,323</u>
Expenses				
Direct research expenses	112,678,891	-	-	112,678,891
Capitalized expenses for property and equipment	<u>(3,861,539)</u>	<u>-</u>	<u>-</u>	<u>(3,861,539)</u>
	<u>108,817,352</u>	<u>-</u>	<u>-</u>	<u>108,817,352</u>
Management and general expenses				
University support	3,664,069	-	-	3,664,069
Research admin., unit support	10,362,115	-	-	10,362,115
Matching costs	1,036,868	-	-	1,036,868
Interest expense-bonds	<u>869,282</u>	<u>-</u>	<u>-</u>	<u>869,282</u>
Total management and general expenses	15,932,334	-	-	15,932,334
Research unit/school expenses	3,556,193	-	-	3,556,193
Service centers	9,715,899	-	-	9,715,899
Other programs services	5,928,485	-	-	5,928,485
Depreciation	4,662,350	-	-	4,662,350
Loss on disposal of assets	<u>199,434</u>	<u>-</u>	<u>-</u>	<u>199,434</u>
Total expenses	<u>148,812,047</u>	<u>-</u>	<u>-</u>	<u>148,812,047</u>
Change in net assets before transfers	6,704,063	432,213	-	7,136,276
Transfers to University	<u>(2,723,488)</u>	<u>-</u>	<u>-</u>	<u>(2,723,488)</u>
Change in net assets	3,980,575	432,213	-	4,412,788
Net assets, beginning of year	<u>40,052,252</u>	<u>606,899</u>	<u>5,996,006</u>	<u>46,655,157</u>
Net assets, end of year	<u>\$ 44,032,827</u>	<u>\$ 1,039,112</u>	<u>\$ 5,996,006</u>	<u>\$ 51,067,945</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENTS OF CASH FLOWS
Years ended June 30, 2018 and 2017

	<u>2018</u>	<u>2017</u>
Cash flows from operating activities		
Cash received for research contracts, grants and service accounts and unit support	\$ 130,270,684	\$ 139,534,461
Royalties received	4,419,311	4,695,367
Interest received	1,178,496	841,198
Payments to suppliers and employees	(146,021,512)	(143,414,411)
Interest paid	(938,601)	(1,088,950)
Other operating receipts	<u>17,544,081</u>	<u>11,275,509</u>
Net cash from operating activities	<u>6,452,459</u>	<u>11,843,174</u>
Cash flows from investing activities		
Purchase of property and equipment	(6,086,032)	(5,778,319)
Purchase of investments	(4,043,321)	(943,830)
Proceeds from sales and maturities of investments	481,119	282,861
Issuance of notes receivable	(3,750,000)	(250,000)
Collection of notes receivable	<u>10,593</u>	<u>51,912</u>
Net cash from investing activities	<u>(13,387,641)</u>	<u>(6,637,376)</u>
Cash flows from financing activities		
Proceeds from issuance of note payable	7,124,684	-
Principal payments on note payable	(728,754)	-
Principal payments on bonds	<u>(3,935,000)</u>	<u>(3,105,000)</u>
Net cash from financing activities	<u>2,460,930</u>	<u>(3,105,000)</u>
Increase (Decrease) in Cash and Cash Equivalents	(4,474,251)	2,100,798
Cash and Cash Equivalents, Beginning of Year	<u>21,814,308</u>	<u>19,713,510</u>
Cash and Cash Equivalents, End of Year	<u>\$ 17,340,057</u>	<u>\$ 21,814,308</u>
Reconciliation of Change in Net Assets to Net Cash Provided by Operating Activities		
Change in net assets	\$ 6,460,581	\$ 4,412,788
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation	5,063,388	4,662,350
Amortization	(172,658)	(188,000)
Donations of equipment - non project funds	-	(84,730)
Loss on disposal of property and equipment	256,772	199,434
Realized and unrealized gains on investments	(1,543,606)	(2,945,643)
Transfer of assets to University of Kansas	531,999	2,723,488
Changes in:		
Accounts receivable, net	(99,381)	2,855,148
Prepaid expenses	(128,545)	96,066
Accounts payable and accrued expenses	(987,796)	(341,013)
Assets held for others	(151,022)	667,404
Deferred revenues - research	<u>(2,777,273)</u>	<u>(214,118)</u>
Net cash provided by operating activities	<u>\$ 6,452,459</u>	<u>\$ 11,843,174</u>
Supplemental Cash Flow Information		
Cash paid for interest	\$ 938,601	\$ 1,088,950
Noncash investing activities:		
Donations of equipment - non project funds	-	84,730

See accompanying notes to financial statements.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Operations: The University of Kansas Center for Research, Inc. (the Center) is a not-for-profit organization that operates under the administrative jurisdiction of the University of Kansas (the University or KU). The Center is a component unit of the University and administers sponsored agreements to conduct research and training for the University. The Center's revenues and other support are derived principally from federal, state, and private grants and its activities are conducted principally in Lawrence, Kansas.

Use of Estimates: The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues, expenses, gains, losses and other changes in net assets during the reporting period. Actual results could differ from those estimates.

Cash Equivalents: The Center considers all liquid investments with original maturities of three months or less to be cash equivalents. At June 30, 2018 and 2017, cash equivalents consisted primarily of an interest bearing checking account that is fully collateralized by FDIC insurance and US Bank.

Investments and Investment Return: All investments are carried at fair value. Investment return includes dividend, interest and other investment income; realized and unrealized gains and losses on investments carried at fair value; and realized gains and losses on other investments.

Property and Equipment: Property and equipment are recorded at cost at the date of acquisition, or estimated fair value at the date of donation in the case of gifts. Property and equipment are depreciated on a straight-line basis over the estimated useful life of each asset, generally 3 to 40 years. For equipment, the Center's capitalization policy includes all items with a unit cost of \$5,000 or more, and an estimated useful life greater than one year. Scientific equipment acquired with research funds are expensed when purchased if such equipment must be returned to the grantor at the end of the research project. Renovations to buildings, infrastructure and land improvements that significantly increase the value or extend the useful life of the structure are capitalized if the related project cost exceeds \$100,000. Routine repairs and maintenance are charged to operating expense in the year in which the expense was incurred.

Impairment of Long-Lived Assets: On an ongoing basis, the Center reviews its long-lived assets for impairment whenever events or circumstances indicate that the carrying amount may be overstated. The Center recognizes impairment losses if the undiscounted cash flows expected to be generated are less than the carrying value of the related asset. If impaired, the assets are adjusted to fair value based on the discounted cash flows. No impairment is thought to exist as of June 30, 2018 or 2017.

Net Assets: The Center is required to report information regarding its financial position and activities according to the following three classes of net assets:

Permanently Restricted – Net assets donated with stipulations that they be invested to provide a permanent source of income (e.g., endowment funds); such restrictions can neither expire with the passage of time nor be removed by fulfillment of a stipulated purpose.

Temporarily Restricted – Net assets whose use by the Center is limited by donor-imposed restrictions that either expire by the passage of time or can be removed by fulfillment of the stipulated purpose for which the donation was restricted.

Unrestricted – Net assets that are free of donor-imposed restrictions and resources used in support of the Center's general operations.

Deferred Revenue: Revenues received for research projects are received either in advance of costs incurred or on a cost-reimbursement basis. Any revenues received in advance are deferred.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Revenue Recognition: Support funded by grants is recognized as the Center performs the contracted services or incurs outlays eligible for reimbursement under the grant agreements. Grant activities and outlays are subject to audit and acceptance by the granting agency and, as a result of such audit, adjustments could be required. During the year ended June 30, 2018, the Center returned \$7,124,684 of funding related to self-reported disallowed costs from prior years.

Research project revenues are received in connection with exchange transactions wherein the Center is obligated to provide certain goods and/or services. Revenues received for research projects are received either in advance of costs incurred or on a cost-reimbursement basis. The costs of projects on a cost-reimbursement basis are recognized as incurred and related revenue is recognized when earned (primarily as costs are incurred), whether billed or unbilled. Facilities and administrative (F&A) reimbursement revenues are earned as a percentage of direct costs charged to sponsored projects. The percentage is based on negotiated rates and is included in each award budget. Approximately 43% and 46% of all grant revenues was received from three grantors (federal agencies) in the form of direct awards during the years ended June 30, 2018 and 2017, respectively.

An allowance for uncollectible cost reimbursement amounts is provided based on management's evaluation of potential uncollectible cost reimbursement amounts at year end.

The composition of accounts receivable at June 30, 2018 and 2017 are as follows:

<u>June 30, 2018</u>	<u>Receivables</u>	<u>Allowance</u>	<u>Net</u>
Accounts receivable - federal	\$ 15,982,002	\$ -	\$ 15,982,002
Accounts receivable - state	2,968,486	-	2,968,486
Accounts receivable - other	<u>6,293,099</u>	<u>(95,479)</u>	<u>6,197,620</u>
	<u>\$ 25,243,587</u>	<u>\$ (95,479)</u>	<u>\$ 25,148,108</u>
<u>June 30, 2017</u>	<u>Receivables</u>	<u>Allowance</u>	<u>Net</u>
Accounts receivable - federal	\$ 14,370,233	\$ -	\$ 14,370,233
Accounts receivable - state	2,646,092	-	2,646,092
Accounts receivable - other	<u>8,127,881</u>	<u>(95,479)</u>	<u>8,032,402</u>
	<u>\$ 25,144,206</u>	<u>\$ (95,479)</u>	<u>\$ 25,048,727</u>

Contributions: Gifts of cash and other assets received without donor stipulations are reported as unrestricted revenue and net assets. Gifts received with a donor stipulation that limits their use are reported as temporarily or permanently restricted revenue and net assets. When a donor stipulated time restriction ends or purpose restriction is accomplished, temporarily restricted net assets are reclassified to unrestricted net assets and reported in the statement of activities as net assets released from restrictions. Gifts and investment income that are originally restricted by the donor and for which the restriction is met in the same time period are recorded as temporarily restricted and then released from restriction.

Income Taxes: The Center is exempt from income taxes under Section 501 (c)(3) of the Internal Revenue Code and a similar provision of state law. The Center is subject to federal income tax on any unrelated business taxable income. However, management believes that any unrelated business taxes due, if any, would not be material to the financial statements.

(Continued)

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

The Center is subject to guidance with respect to accounting for uncertainty in income taxes. A tax position is recognized as a benefit only if it is “more likely than not” that the tax position would be sustained in a tax examination, with a tax examination being presumed to occur. The amount recognized is the largest amount of tax benefit that is greater than 50% likely of being realized on examination. For tax positions not meeting the “more likely than not” test, no tax benefit will be recorded.

The Center does not expect the total amount of unrecorded tax benefits to significantly change in the next 12 months. The Center recognizes interest and/or penalties related to income tax matters in income tax expense. The Center did not have any amounts accrued for interest and penalties at June 30, 2018 and 2017. At June 30, 2018 and June 30, 2017, the Center has not recorded any expected tax benefits.

Reclassifications: Certain reclassifications have been made to present last year’s financial statements on a basis comparable to the current year’s financial statements. These reclassifications had no effect on the change in net assets or total net assets.

Subsequent Events: Management has performed an analysis of the activities and transactions subsequent to June 30, 2018, to determine the need for any adjustments or disclosures to the financial statements for the year ended June 30, 2018. Management has performed their analysis through October 8, 2018, the date the financial statements were issued.

NOTE 2 - INVESTMENTS

The Executive Committee, as well as the Finance and Audit Committee, of the Center oversee the Center’s investments. In accordance with the Center’s investment policy, eligible investments include money market funds, FDIC insured bank accounts, U.S. Treasury obligations (Bills, Notes, Bonds), U.S. Government Agency obligations, corporate obligations, mutual funds, exchange traded funds, domestic and international stocks, and fully collateralized repurchase agreements. Asset allocation targets are reviewed semi-annually by the Finance and Audit Committee.

Fair Value Measurements

Fair value is defined as the price that would be received for an asset or paid to transfer a liability (an exit price) in the Center’s principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

To maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value, the Center uses the fair value hierarchy. GAAP describes three levels of inputs that may be used to measure fair value:

Level 1: Inputs include quoted prices (unadjusted) for identical assets or liabilities in active markets that the entity has the ability to access as of the measurement date.

Level 2: Inputs include significant other observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data.

Level 3: Inputs include significant unobservable inputs that reflect a reporting entity’s own assumptions about the assumptions that market participants would use in pricing an asset or liability.

In many cases, a valuation technique used to measure fair value includes inputs from multiple levels of the fair value hierarchy. The lowest level of significant input determines the placement of the entire fair value measurement in the hierarchy.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 2 - INVESTMENTS (Continued)

Where quoted market prices are available in an active market, securities are classified within Level 1 of the valuation hierarchy. Level 1 securities include mutual funds, money market funds, and funds held in trust for debt service.

Investments Held by Kansas University Endowment Association

Investments in pooled funds held by Kansas University Endowment Association (KU Endowment) are valued at net asset value based upon the proportional value of the overall fund which estimates fair value. Investment earnings are allocated monthly on a prorated basis representative of the Center's overall percentage of ownership in the applicable pooled funds. As such, all of the Center's investments at the KU Endowment are valued at net asset value, and are excluded from the valuation hierarchy. The underlying assets consist primarily of marketable securities measured at fair value.

The Center classifies funds that are available for immediate expenditure as current assets and funds invested in KU Endowment's long-term investment program and other investment funds as noncurrent assets. The funds available for immediate expenditure can be redeemed on a short-term basis. The Center has visibility to the underlying holdings which are considered to be Level 1 and Level 2 inputs.

The Center's investments at June 30 consisted of the following:

	<u>Fair Value measurement at Reporting Date Using</u>		
	<u>Fair Value</u>	<u>Level 1</u>	<u>NAV</u>
<u>June 30, 2018</u>			
Domestic equity funds	\$ 12,653,711	\$ 12,653,711	\$ -
Domestic bond funds	16,362,828	16,362,828	-
Domestic real estate funds	3,861,394	3,861,394	-
International equity funds	7,600,978	7,600,978	-
International bond funds	4,368,882	4,368,882	-
International real estate funds	2,367,080	2,367,080	-
Money market mutual funds	79,029	79,029	-
Investments held by KU Endowment	<u>7,272,063</u>	<u>-</u>	<u>7,272,063</u>
	<u>\$ 54,565,965</u>	<u>\$ 47,293,902</u>	<u>\$ 7,272,063</u>
	<u>Fair Value measurement at Reporting Date Using</u>		
	<u>Fair Value</u>	<u>Level 1</u>	<u>NAV</u>
<u>June 30, 2017</u>			
Domestic equity funds	\$ 11,161,993	\$ 11,161,993	\$ -
Domestic bond funds	14,506,994	14,506,994	-
Domestic real estate funds	3,313,953	3,313,953	-
International equity funds	6,696,403	6,696,403	-
International bond funds	3,813,978	3,813,978	-
International real estate funds	2,092,904	2,092,904	-
Money market mutual funds	85,369	85,369	-
Funds held in trust for debt service	751,726	751,726	-
Investments held by KU Endowment	<u>7,036,837</u>	<u>-</u>	<u>7,036,837</u>
	<u>\$ 49,460,157</u>	<u>\$ 42,423,320</u>	<u>\$ 7,036,837</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 2 - INVESTMENTS (Continued)

Total investment return is comprised of the following:

	<u>2018</u>	<u>2017</u>
Interest and dividend income	\$ 1,050,078	\$ 721,048
Realized gain	1,001,627	722,460
Unrealized gain	<u>541,979</u>	<u>2,223,183</u>
	<u>\$ 2,593,684</u>	<u>\$ 3,666,691</u>

Investment expense, included in investment income, was \$128,418 and \$120,150 for the years ended June 30, 2018 and 2017, respectively.

NOTE 3 - NOTES RECEIVABLE

In fiscal year 2010, the Center loaned the Lawrence-Douglas County Biosciences Authority \$1,000,000 to assist in the financing of the construction of the Bioscience and Technology Business Center (BTBC). The note matures on June 21, 2020 requiring a final principal payment on the maturity date. The note bears interest at 4.25%, and is secured by an unconditional assignment of amounts payable to BTBC under commitments from the City of Lawrence, Kansas and Douglas County, Kansas (annual commitments by each of \$75,000 per year through 2018) and by an assignment of rent from all tenants of the facility.

An additional \$100,000 was loaned to the Lawrence-Douglas County Biosciences Authority on December 15, 2010 under the same terms as the initial note. During fiscal year 2016, the note was amended to require annual principal and interest payments of \$12,500 through maturity on June 21, 2020.

During fiscal year 2017, the Center advanced an additional \$250,000 under a newly issued promissory note in the amount of \$4,000,000 with BTBC. During 2018, the remaining \$3,750,000 was advanced. The note matures March 6, 2038, 20 years after the final principal advance was made, bears interest at 2.5%, and is secured by an unconditional assignment of amounts payable, insurance, and rent from all tenants of the facility. The note requires interest only payments during the first three years following the final principal advance and then annual payments of \$291,711 of principal and interest after that.

All notes are recorded at the unpaid principal balance. Management believes the entire balance is collectible, as such management has made no provisions for uncollectible amounts. Interest is recognized over the term of the notes and is calculated using the simple-interest method on the outstanding principal.

A summary of changes in notes receivable is as follows:

	<u>June 30,</u> <u>2017</u>	<u>Additions</u>	<u>Repayments</u>	<u>June 30,</u> <u>2018</u>	<u>Current</u> <u>Portion</u>
BTBC notes	\$1,036,231	\$3,750,000	\$ (10,593)	\$4,775,638	\$ 99,886

Future repayment activity for the notes is as follows:

<u>Year Ending</u> <u>June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 99,886	\$ 162,614	\$ 262,500
2020	663,152	128,737	791,889
2021	12,600	100,547	113,147
2022	191,711	100,000	291,711
2023	196,504	95,207	291,711
Thereafter	<u>3,611,785</u>	<u>763,881</u>	<u>4,375,666</u>
	<u>\$ 4,775,638</u>	<u>\$ 1,350,986</u>	<u>\$ 6,126,624</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 4 - PROPERTY AND EQUIPMENT

Property and equipment at June 30, 2018 and 2017 consists of:

	June 30, <u>2017</u>	<u>Increases</u>	<u>Decreases</u>	June 30, <u>2018</u>
Land	\$ 880,808	\$ -	\$ -	\$ 880,808
Building	1,916,236	-	-	1,916,236
Office equipment	896,362	2,485,744	(1,160,668)	2,221,438
Scientific equipment	<u>66,947,542</u>	<u>3,142,452</u>	<u>(885,198)</u>	<u>69,204,796</u>
	70,640,948	5,628,196	(2,045,866)	74,223,278
Less accumulated depreciation	<u>52,691,818</u>	<u>5,063,388</u>	<u>(1,789,094)</u>	<u>55,966,112</u>
	17,949,130	564,808	(256,772)	18,257,166
Buildings and equipment in progress	<u>1,191,243</u>	<u>723,565</u>	<u>(797,729)</u>	<u>1,117,079</u>
Total, net	<u>\$ 19,140,373</u>	<u>\$ 1,288,373</u>	<u>\$ (1,054,501)</u>	<u>\$ 19,374,245</u>

The statements of financial position of the Center include only those property and equipment purchases or donations that remain the Center's property. Accordingly, the historical cost of property and equipment purchased by the Center and transferred to the University are reflected within the University's financial statements.

Transfers to the University for 2018 and 2017 were:

	<u>2018</u>	<u>2017</u>
Property, equipment, and other	\$ 531,998	\$ 2,723,488

NOTE 5 - ASSETS HELD FOR OTHERS

The Center has entered into an agreement with another community based organization to administer the Assistive Technology for Kansans program. In association with this agreement, the Center will maintain certain administrative and fiduciary responsibilities related to certain financial assets of the program. These financial assets primarily consist of investments. Accordingly, the amounts of financial assets administered by the Center under the program are also reported as assets held for others. At June 30, 2018 and 2017, these amounts totaled \$7,936,933 and \$8,087,955.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 6 – BONDS PAYABLE

A summary of the changes in long term debt is as follows:

	June 30, <u>2017</u>	<u>Additions</u>	<u>Retirements</u>	June 30, <u>2018</u>	Current <u>Portion</u>
Revenue bonds:					
Series 2006G	\$ 720,000	\$ -	\$ (720,000)	\$ -	\$ -
Series 2012E	18,405,000	-	(2,370,000)	16,035,000	2,415,000
Series 2014E	<u>10,195,000</u>	-	<u>(845,000)</u>	<u>9,350,000</u>	<u>830,000</u>
	<u>29,320,000</u>	<u>-</u>	<u>(3,935,000)</u>	<u>25,385,000</u>	<u>3,245,000</u>
Bond premium 2006G	8,318	-	(8,318)	-	-
Bond premium 2012E	1,241,547	-	(221,796)	1,019,751	221,796
Bond premium 2014E	<u>202,507</u>	-	<u>(23,917)</u>	<u>178,590</u>	<u>23,917</u>
	1,452,372	-	(254,031)	1,198,341	245,713
Bond issuance costs	<u>(331,264)</u>	<u>-</u>	<u>81,373</u>	<u>(249,891)</u>	<u>(52,872)</u>
Total	<u>\$ 30,441,108</u>	<u>\$ -</u>	<u>\$ (4,107,658)</u>	<u>\$ 26,333,450</u>	<u>\$ 3,437,841</u>

Long-term debt at June 30, 2018, is comprised of the following:

Revenue Bonds	Balance at June 30, <u>2018</u>	Balance at June 30, <u>2017</u>
<p>\$17,085,000 - Series 2006G Kansas Development Finance Authority Revenue Bonds (\$15,830,000 tax-exempt and \$1,255,000 taxable). In 2014, \$10,560,000 of the 2006G bonds were advance refunded with the issuance of the 2014E bonds described below. Remaining annual installments range from \$640,000 to \$720,000 with final maturity on February 1, 2018. Interest at 4.00% is payable semi-annually. A debt service reserve fund was established in accordance with the covenants of the bond. At June 30, 2017 the balance in this reserve fund was \$751,726. The reserve fund was closed as of June 30, 2018.</p>	\$ -	\$ 720,000
<p>\$29,675,000 - Series 2012E Kansas Development Finance Authority Revenue Refunding Bonds (\$14,075,000 tax-exempt and \$15,600,000 taxable). The bonds are due in annual installments ranging from \$2,190,000 to \$2,950,000 with final maturity on February 1, 2024. Interest at rates ranging from 2.00% to 5.00% is payable semi-annually. A rating of AA Stable was assigned by Standard & Poor's and a rating of Aa1 was assigned by Moody's Investor Services. A pledge of Center revenues and a second pledge of all University revenues, excluding restricted revenues, are available for full payment of the debt service in the event the Center is not able to make debt service payments. Proceeds from the 2012E bonds were used to extinguish the Series 2005B Kansas Development Finance Authority Taxable Revenue Bonds, which were originally used to finance the construction of the Multidisciplinary Research building.</p>	16,035,000	18,405,000

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 6 – BONDS PAYABLE (Continued)

\$10,580,000 – Series 2014E Kansas Development Finance Authority Revenue Bonds (tax-exempt). The bonds are due in annual installments ranging from \$90,000 to \$4,045,000 final maturity on February 1, 2025. Interest at rates ranging from 2.00% to 3.00% is payable semi-annually. A rating of AA was assigned by Standard & Poor's and a rating of Aa2 was assigned by Moody's Investor Services. A pledge of Center revenues and a second pledge of all University's revenues, excluding restricted revenues, are available for full payment of the debt service in the event the Center is not able to make debt service payments. Proceeds for the 2014E bonds were used to advance refund \$10,560,00 of the 2006G Kansas Development Finance Authority Tax-Exempt Revenue Bonds described above, which were originally used to finance the construction of the Structural Biology Center Phase III building.

<u>9,350,000</u>	<u>10,195,000</u>
<u>\$ 25,385,000</u>	<u>\$ 29,320,000</u>

In accordance with University policy, the capitalized costs of the Multidisciplinary Research building and Structural Biology Center Phase III building have been previously transferred to and are reported on University's financial statements. At June 30, 2018 and 2017, the net book value of these facilities was approximately \$32.5 million and \$34.5 million, respectively.

Future revenue bond debt service requirements at June 30, 2018 are as follows:

Year Ending <u>June 30</u>	2012E		2014E		Total	
	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 2,415,000	\$ 656,150	\$ 830,000	\$ 263,700	\$ 3,245,000	\$ 919,850
2020	2,475,000	594,200	850,000	247,100	3,325,000	841,300
2021	2,600,000	470,450	865,000	230,100	3,465,000	700,550
2022	2,730,000	340,450	890,000	204,150	3,620,000	544,600
2023	2,865,000	203,950	920,000	177,450	3,785,000	381,400
2024	2,950,000	118,000	950,000	149,850	3,900,000	267,850
2025	-	-	<u>4,045,000</u>	<u>121,350</u>	<u>4,045,000</u>	<u>121,350</u>
	<u>\$16,035,000</u>	<u>\$ 2,383,200</u>	<u>\$ 9,350,000</u>	<u>\$ 1,393,700</u>	<u>\$25,385,000</u>	<u>\$ 3,776,900</u>

The Series 2012 and 2014 Bonds are secured by loan agreements with the Kansas Development Finance Authority. The bond agreements contains various restrictive covenants. The Center is subject to limitations on additional indebtedness under the agreements. At June 30, 2018, the Center reported compliance with these covenants.

Interest expense related to all bonds payable for the years ended June 30, 2018 and 2017, was \$727,151 and \$869,282, respectively.

NOTE 7 – NOTE PAYABLE

During fiscal year 2018, the Center entered into a loan agreement with the KU Endowment for a principal sum of \$7,124,684. The note bears interest at 3% and requires minimum annual payments of \$1,555,707 until repaid. During 2018, the Center made a payment on the loan of \$800,000, including interest.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 7 – NOTE PAYABLE (Continued)

Future repayment activity for the note is as follows:

Year Ending June 30	Principal	Interest	Total
2019	\$ 613,213	\$ 142,494	\$ 755,707
2020	1,382,256	173,451	1,555,707
2021	1,423,692	132,015	1,555,707
2022	1,466,403	89,304	1,555,707
2023	<u>1,510,366</u>	<u>45,341</u>	<u>1,555,707</u>
	<u>\$ 6,395,930</u>	<u>\$ 582,605</u>	<u>\$ 6,978,535</u>

NOTE 8 - RESEARCH PROJECT EXPENDITURES/REVENUES

The University has transferred substantially all of its research grants to the administrative control of the Center. The University and Center total sponsored research activity for the years ended June 30, 2018 and 2017 was as follows:

	<u>2018</u>	<u>2017</u>
<u>University Activity (Unaudited)</u>		
University Research Expenditures	\$ 10,611,721	\$ 4,521,043
University Indirect Cost	<u>3,566,851</u>	<u>1,128,820</u>
Total University Activity (Unaudited)	14,178,572	5,649,863
<u>Center for Research Activity</u>		
Center for Research Expenditures	108,449,843	112,678,891
Center Indirect Cost	<u>24,917,217</u>	<u>23,560,170</u>
Total Center for Research Activity	<u>133,367,060</u>	<u>136,239,061</u>
Total Sponsored Activity – University and Center (unaudited)	<u>\$ 147,545,632</u>	<u>\$ 141,888,924</u>

NOTE 9 - NET ASSETS

Temporarily Restricted Net Assets

Temporarily restricted net assets available at June 30 are restricted for the following purposes:

	<u>2018</u>	<u>2017</u>
Dole Institute	\$ 996,783	\$ 791,401
Humanities	<u>277,555</u>	<u>247,711</u>
	<u>\$ 1,274,338</u>	<u>\$ 1,039,112</u>

Permanently Restricted Net Assets

Permanently restricted net assets by purpose at June 30 are as follows:

	<u>2018</u>	<u>2017</u>
Dole Institute	\$ 5,049,881	\$ 5,049,881
Humanities	<u>946,125</u>	<u>946,125</u>
	<u>\$ 5,996,006</u>	<u>\$ 5,996,006</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 9 - NET ASSETS (Continued)

The income generated from these permanently restricted assets is to be used for activities relating to the restricted purposes.

Net assets released from restrictions

Net assets were released from donor restrictions by incurring expenses satisfying the restricted purposes or by occurrence of other events specified by donors.

	<u>2018</u>	<u>2017</u>
Dole Institute	\$ 290,647	\$ 246,854
Humanities	<u>62,054</u>	<u>36,007</u>
	<u>\$ 352,701</u>	<u>\$ 282,861</u>

NOTE 10 - ENDOWMENTS

The Center's endowments consist of grant-funded and individual donor-restricted funds established for a variety of purposes. As required by accounting principles generally accepted in the United States of America (GAAP), net assets associated with endowment funds are classified and reported based on the existence or absence of donor-imposed restrictions.

The Center's governing body has interpreted the State of Kansas Prudent Management of Institutional Funds Act (SPMIFA) as requiring preservation of the fair value of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulations to the contrary. As a result of this interpretation, the Center classifies as permanently restricted net assets the original value of grants and gifts donated to the permanent endowment, (b) the original value of subsequent gifts to the permanent endowment and (c) accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund.

The remaining portion of donor-restricted endowment funds is classified as temporarily restricted net assets until those amounts are appropriated for expenditure by the Center in a manner consistent with the standard of prudence prescribed by SPMIFA.

In accordance with SPMIFA, the Center considers the following factors in making a determination to appropriate or accumulate donor-restricted endowment funds:

1. Duration and preservation of the fund
2. Purposes of the Center and the fund
3. General economic conditions
4. Possible effect of inflation and deflation
5. Expected total return from investment income and appreciation or depreciation of investments
6. Other resources of the Center
7. Investment policies of the Center

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 10 - ENDOWMENTS

The composition of donor-restricted endowment funds by net asset restriction and the changes in donor-restricted endowment net assets for the years ended June 30, 2018 and 2017 were:

	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>
Endowment net assets, July 1, 2017	\$ 1,039,111	\$ 5,996,006
Investment income	311,094	-
Unrealized gain on investments	276,834	-
Amounts appropriated for expenditure	<u>(352,701)</u>	<u>-</u>
Endowment net assets, June 30, 2018	<u>\$ 1,274,338</u>	<u>\$ 5,996,006</u>
Endowment net assets, July 1, 2016	\$ 606,898	\$ 5,996,006
Investment income	305,609	-
Unrealized gain on investments	409,465	-
Amounts appropriated for expenditure	<u>(282,861)</u>	<u>-</u>
Endowment net assets, June 30, 2017	<u>\$ 1,039,111</u>	<u>\$ 5,996,006</u>

The Center has invested the above endowments in pooled funds held and managed by the Kansas University Endowment Association (KU Endowment).

KU Endowment has investment policies that attempt to provide a predictable stream of funding to programs supported by operations, as well as endowment donations. Assets are invested in a manner that is intended to produce results that match or exceed the respective benchmark while also seeking to control investment risk. The primary long-term financial objective of the portfolio managed by KU Endowment is to preserve the real value (purchasing power) of the principal (the gift value) and of its spending distributions, while providing a relatively stable source of funding for participants. Since the program's 1988 inception, Endowment has met its objective though actual returns in any given year may vary from this amount.

Funds with Deficiencies: From time to time, the fair value of assets associated with individual donor restricted endowment funds may fall below the level that the donor or SPMIFA requires the Center to retain as a fund of perpetual duration. There were no such funds with deficiencies as of June 30, 2018 and 2017.

Strategies Employed for Achieving Objectives: To satisfy its long-term rate-of-return objectives, KU Endowment relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends net of fees). KU Endowment targets a diversified asset allocation to achieve its long-term return objectives within prudent risk constraints.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 NOTES TO FINANCIAL STATEMENTS
 June 30, 2018 and 2017

NOTE 10 - ENDOWMENTS (Continued)

Spending Policy and How the Investment Objectives Relate to Spending Policy: Except as specified by the donor, KU Endowment has adopted a constant growth spending policy. The target spending rate is 5.5% of the market value of participating funds, less a 0.9% administrative fee charge by KU Endowment. TO avoid potential under-distributions or unsustainable over-distributions in any given year, the policy is subject to a 4.5% “floor” and a 6.5% “cap” of the trailing four quarter average market value. Every month, participating funds receive a distribution. The spending amount is recalculated annually based on values ending September 30th of the year preceding each spending year and is effective for one year beginning February 1 and ending the following January 31. In establishing this policy, KU Endowment considered the long-term expected return on its endowment. Accordingly, over the long term, KU Endowment expects the current spending policy to allow its endowment to grow at an average of the long-term rate of inflation. This is consistent with KU Endowment’s objective to maintain the purchasing power of the endowed assets held in perpetuity, as well as to provide additional growth through new gifts.

NOTE 11 - RELATED PARTY TRANSACTIONS

During the years ended June 30, 2018 and 2017, amounts paid by the University (and reimbursed by the Center) for salaries, benefits, scholarships, fellowships, tuition, and other operating expenses amounted to approximately \$94,123,208 and \$94,571,888, respectively. Of these amounts, approximately \$12,823,564 and \$11,245,859 are included in accounts payable and accrued expenses at June 30, 2018 and 2017, respectively.

The University provides support to the Center to fund general and administrative salaries and benefits, funds to invest in University programs and certain utility, maintenance, and custodial expenses paid by the University for the benefit of the Center. The following amounts were paid by the University for the years ended June 30, 2018 and 2017:

	<u>2018</u>	<u>2017</u>
Provost funding:		
Salaries and benefits	\$ 1,715,157	\$ 1,868,579
Other Investments	<u>2,877,956</u>	<u>2,536,031</u>
	4,593,113	4,404,610
Utilities	63,364	62,695
Information technology services	66,258	66,258
Maintenance	100,447	165,424
Custodial	<u>27,821</u>	<u>26,875</u>
	<u>\$ 4,851,003</u>	<u>\$ 4,725,862</u>

Effective July 1, 2009, the University established a central pool for the payout of vacation leave when faculty or staff resign or terminate employment. The effective rate is 0.45% of eligible payroll as of June 30, 2018 and 2017.

The Center provided support to KU Endowment for departmental benefit in funding research, graduate studies, distinguished professorships, scholarships and fellowships. Support of \$2,021,130 and \$2,046,900 was provided to KU Endowment during the fiscal years 2018 and 2017 and is included in other program services on the statement of activities.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2018 and 2017

NOTE 11 - RELATED PARTY TRANSACTIONS (Continued)

The Center and the University of Kansas Medical Center Research Institute, Inc. jointly fund the operations of KU Center for Technology Commercialization (KUCTC). Support of \$1,187,375 and \$1,201,375 was provided to KUCTC during each of the fiscal years 2018 and 2017, respectively.

NOTE 12 - OPERATING LEASES

Non-cancellable operating leases for facilities used in research projects expire in various years through 2038. These leases generally contain renewal options for periods ranging from one to five years.

Future minimum lease payments at June 30, 2018 were:

2019	\$ 951,791
2020	974,958
2021	977,228
2022	656,023
2023	646,154
Thereafter	<u>5,389,136</u>
	<u>\$ 9,595,290</u>

Rent expense for all operating leases was \$1,044,543 and \$1,163,683 for the years ended June 30, 2018 and 2017, respectively.

NOTE 13 - DEFINED CONTRIBUTION PROGRAM

All employees working for the Center are University of Kansas employees. The University has a defined contribution pension program covering all staff employees who have worked at the University for more than one year. Participating employees contribute 5.5% of their salary, and the Center contributes an additional 8.5%. Participating employees are fully vested immediately. The Center contributed \$142,594 and \$258,682 for 2018 and 2017, respectively.

NOTE 14 - COMMITMENTS AND CONTINGENCIES

The Center is subject to ongoing reviews from granting agencies. Amounts for repayment to awarding agencies, if any, cannot be reasonably estimated and are thus not recorded as a liability in the statement of financial position.

SUPPLEMENTARY INFORMATION

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER			
DEPARTMENT OF AGRICULTURE			
Direct Award			
Kansas Species Conservation Partnership	10.000	13-CS-11020000-020	\$ 1,395
Sustainability Study of Wild Populations of Osha (<i>Ligusticum Porteri</i>) in the San Juan National Forest	10.000	15-CS-11021300-037	3,000
Mycorrhizal Amendments	10.000		38,063
Virus and Vector Protein Expression	10.001	58-3020-5-024	21,831
Ethnobotanical Research, Mapping and Monitoring on the Rio Grande National Forest	10.699	17-CS-11020900-019	3,977
Pass through KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES			
Pilot Projects to Reduce Dependency	10.596	40552	259,315
Pass through KANSAS STATE UNIVERSITY			
Develop canopy sensing and computational systems for real-time control and feedback of irrigation technology	10.310	S17170	5,065
PAPM EAGER: Wheat Phenome/Genome Sensing/Modeling via Microwave Scattering Inversion	10.310	S17144	104,301
Forest Planning at Baldwin Woods	10.676	S18008	10,036
Pass through MICHIGAN STATE UNIVERSITY			
Developing and promoting water-, nutrient-, and climate-smart technologies to help agricultural systems adapt to climate and society changes	10.310	RC104693B	27,969
Pass through UNIVERSITY OF DELAWARE			
Reducing uncertainty in carbon cycle science of North America: a synthesis program across United States	10.310	38517	36,118
Pass through UNIVERSITY OF NEBRASKA - LINCOLN			
Data Processing and Analysis: Rapid Assessment of US Soil Carbon for Climate Change and Conservation Planning	10.903	25-6238-0697-002	24,892
DEPARTMENT OF COMMERCE			
Direct Award			
Collaborative Research: Representing Calving and Iceberg Dynamics in Global Climate	11.431	NA13OAR4310099	23,352
Pass through COLORADO STATE UNIVERSITY			
Center for Risk-Based Community Resilience Planning	11.619	G-00745-10	24,121
Pass through UNIVERSITY CORP FOR ATMOSPHERIC			
FOSSFlood: The LivingFlood Application Build on Free Open Source Software	11.467	SUBAWD000648	3,507
DEPARTMENT OF DEFENSE			
Direct Award			
Improving mesoscale prediction of shallow convection and cloud regime transitions in NRL COAMPS	12.300	N00014-11-1-0518	9,888
Establishing Optimal Training Intervals for the Marine Corps Martial Arts Program (MCMAP) For Improvement in Physical Performance and Warrior Mindset	12.300	N00014-14-1-0202	182,580
Cooperative Routing for Dynamic Aerial Layer Networks	12.300	FA8750-14-1-0077	68,432
Trafficking/Terrorism Nexus in Eurasia	12.300	N00014-15-1-2788	344,829
Analog Integrated Circuit Design for Spike-Time-Dependent Encoder and Reservoir in Reservoir Computing Processors	12.300	FA8750-16-2-0120	59,287
Noninvasively relieving joint contracture by using ultrasound-assisted laser technique to remove scar tissues in the knee joint	12.420	W81XWH-15-1-0524	73,401
The Role of APC in Goblet Cell Function and the Unfolded Protein Response	12.420	W81XWH-16-1-0115	22,182
Blocking breast cancer metastasis by targeting RNA-binding protein HuR	12.420	W81XWH-16-1-0729	153,122
Intensive Cardiorespiratory Exercise (ICE) to Remediate Mild Traumatic Brain Injury in Active Duty Service Members	12.420	W81XWH-16-1-0519	51,863
The Human Geography of Resilience and Change: Land Rights and Political Stability in Latin American Indigenous Societies	12.431	W911NF-13-1-0281	44,456
Studies in the Control of Stochastic Systems	12.431	W911NF-14-1-0390	506
A High-Order CPR Method on Overset Adaptive Cartesian and Prismatic Meshes for Rotorcraft Flow Simulations	12.431	W911NF-15-1-0505	135,462
Electrochemistry: Development of a "Macro" SI-SCM Protocol to Investigate Reaction Intermediates for the HER and OER, and its Use for Designing Earth-Abundant Electrocatalysts	12.431	W911NF-17-1-0098	44,720
3D Sound propagation HPC simulation with impedance and vegetation models.	12.431	W911NF-14-2-0077	51,784
Fundamental Physics of Carbon-based Nanohybrids for High-performance Infrared and Ultraviolet Detection	12.431	W911NF-16-1-0029	168,511
Cognitive Radar to Address Spectral Congestion	12.431	W911NF-15-2-0063	144,759
Helicopter collision-avoidance radar	12.431	W911NF-16-2-0222	232,502

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF DEFENSE (Continued)</u>			
W911NF-12-R-0011-04: State Estimation for Complex Dynamic Systems with Unstructured Uncertainty	12.431	W911NF-17-2-0138	\$ 66,210
Advancing Full Wavefield Seismic Imaging for Analysis, Sensor Concept Development, Analytical and Field Test Evaluations	12.630	W913E5-15-2-0001	51,296
Computational modeling of the effect of microstructural properties on induction heating of conductive asphalt concrete	12.630	Agreement	12,712
Ultra-Low Cost and Energy Efficient Hydrogen Generator	12.630	W911NF-18-1-0098	13,810
Tow ards Extreme-Scale Computing w ith High-Order Discontinuous Methods	12.800	FA9550-16-1-0128	120,633
Studies in Stochastic Control and Differential Games	12.800	FA9550-17-1-0073	121,749
Time-varying metamaterials: dynamic transformation optics and parametric phenomena	12.800	FA9550-16-1-0152 Mod	122,696
Problems in Algebraic and Geometric Combinatorics	12.901	H98230-12-1-0274	(180)
Problems in commutative algebra, w ith applications	12.901	H98230-16-1-0012	12,107
Advanced Radar Waveforms for Navy Platf orms	12.000	N00014-16-C-2029	322,914
Advancement in Full Wavefield Seismic Imaging: Modification to Active Seismic Imaging (ASI) System - Mission Upgrade	12.000	W912HZ-16-C-0018-P00	129,352
Archaeological Curation Agreement with Tulsa District COE	12.000	W912BV-16-P-0087	3,939
Graduate Research Assistant Support Services RFQ (HQ0034-16-T-0166)	12.000	HQ0034-16-P-0203	1,811
Architectures for Elaborate Goal Reasoning	12.000	N00173-17-P-0837	46,094
Common-cavity femtosecond dual-frequency comb laser based on all PM fibers	12.000	2017-17030700017	143,183
Science of Security for Cyber-physical Systems (SCpS)	12.000	H92830-18-D-0009	51,353
<u>Pass through ADAPTIVE METHODS</u>			
Advanced Sonar Signal Processing	12.000	3112-SC002	123,000
<u>Pass through ADVANCED TECHNOLOGY INTERNATIONAL</u>			
Coded APSK for Improved Spectral Efficiency in Aeronautical Mobile Telemetry	12.000	2017-319	650,789
<u>Pass through ADVENTIUM LABS</u>			
Toolkit for Evolving Ecosystem Envelopes: Dynamic Measurement	12.910	1056-001-001-007	141,469
<u>Pass through ALION SCIENCE & TECHNOLOGY</u>			
Cloud Radio Access Networks (Cloud-RAN): Caching, Scheduling and MIMO Beamforming	12.000	SUB1129092	10,345
<u>Pass through ARCADIS U.S., INC.</u>			
Demonstration and Validation of the Horizontal Reactive Media Treatment (HRX) Well for Managing Contaminant Plumes in Complex Geological Environments	12.000	D16-073	62,251
<u>Pass through BRIGHAM YOUNG UNIVERSITY</u>			
Preamble Assisted Equalization for Aeronautical Telemetry (PAQ)	12.910	13-0360	12
Space-Time Coding of r Multi-h CPM	12.000	R0302769	60,075
<u>Pass through DESIGNZYME</u>			
LOX-Pt Nanoparticle Stabilization for Multi-Analyte BioMICS	12.000	19066	168,211
<u>Pass through INDIANA UNIVERSITY</u>			
Soil Microbial Communities: Critical roles in Control of Non-Native Invasive Species and restoration of Ecosystem Functions	12.000	BL-4324205-KU	179,932
<u>Pass through MATRIX RESEARCH, INC.</u>			
Master Agreement	12.000	S014-012	187,185
<u>Pass through MISSOURI STATE UNIVERSITY</u>			
Geoarchaelogical Investigation of Harlan County Lake, Nebraska	12.000	18080-001	4,353
<u>Pass through OHIO STATE UNIVERSITY</u>			
Arylimidamide-Azole Combinations against Leishmaniasis	12.420	60042198	22,945
<u>Pass through SOLUTIONIES, INC.</u>			
Estimating Mobile-Immobile Mass Transfer Parameters using Direct Push Tools	12.000	2015.0031.ARMY	64,331
<u>Pass through UNIVERSITY OF MARYLAND-COLLEGE PARK</u>			
The Role of Phenology and Phenology Change in the Transmission of Arthropod-Borne Diseases Implications for Management on Military Lands	12.000	42698-Z8442101	34,317
<u>Pass through UNIVERSITY OF NEW MEXICO</u>			
Exploiting ER stress pathw ay as a target of vulnerability in ovarian cancer	12.000	3RDX6	2,523
<u>Pass through UNIVERSITY OF TEXAS AT SAN ANTONIO</u>			
Sea Ice and Near-Surface Geophysics Research Instrumentation	12.300	100000474	(1,974)
<u>DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT</u>			
<u>Pass through ECONOMIC SYSTEMS INC</u>			
Master Agreement	14.000	KUCR-15-DU205NC-13-A	18,397

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF INTERIOR</u>			
<u>Direct Award</u>			
Bureau of Indian Affairs Archeological Collections and Association Documentation Curated at the University of Kansas Natural History Museum Identifying, Cataloging, Photographing, and Rehousing BIA Collections	15.159	A17AC00068	\$ 49,609
Archaeological Evaluation of the KibRidge site (5MF3687)	15.224	L15AC00252	1,397
Fouling-resistant, Self-decontaminating Membranes for Effective Desalination of Oily Saline Wastewater	15.506	R17AC00132	12,431
Geologic Mapping in Kansas for FY16	15.810	G16AC00195	833
Geologic Mapping in Kansas for FY17	15.810	G17AC00261	137,722
Kansas Oil, Gas, and Water Well Geologic Data, Records, and Samples Preservation and Inventory of Aerial Photographs, FY2016	15.814	G16AP00152	18,638
Preservation of Kansas Oil, Gas, and Water Well Geologic Data, Records, and Samples, and Aerial Photographs, FY2017	15.814	G17AP00090	66,806
Experimental Geothermal Mapping Utilizing Drill-Stem Test Data	15.819	G15AC00286	11,711
Maintenance of the Kansas Geological Survey's Data Services to the National Groundwater Monitoring Network of water levels over the Kansas High Plains Aquifer	15.980	G16AC00363	12,931
Maintenance of the Kansas Geological Survey's (KGS) Data Services to the National Groundwater Monitoring Network (NGWMN) and establishment of a Trend well network in the Kansas River alluvial aquifer	15.980	G17AC00170	28,571
Curation for the United State Army Corp of Engineers	15.000	W912DQ-14-P-1037	11,811
Long Term Property Curation with the University of Kansas	15.000	R16PX00199	14,079
Bureau of Indian Affairs Archeological Collections and Association Documentation Curated at the University of Kansas Natural History Museum Identifying, Cataloging, Photographing, and Rehousing BIA Collections	15.000	A16PX01207	10,172
Re-Inventory of Wetlands on the Prairie Band Potawatomi Reservation	15.000	20876	1,474
<u>Pass through AMERICAVIEW INC.</u>			
State View Program Development and Operations for the State of Kansas	15.808	AV13-KS01	15,175
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT</u>			
Floristic Quality Assessment of Sites in Southeast Kansas	15.658	Agreement	(582)
<u>Pass through KANSAS DEPARTMENT OF WILDLIFE PARKS & TOURISM</u>			
Geographic Information System (GIS) & Remote Sensing Support Services	15.611	Agreement	140,242
<u>Pass through KANSAS WATER RESOURCES INSTITUTE</u>			
Assessing the impact of constructed wetlands on nitrogen transformation and release from tile outlet terraces (TOTs) in Kansas	15.805	S16145	11,515
Examining sedimentation and water quality of small impoundments: Sediment capturing opportunity upstream of federal reservoirs	15.805	S16147.01	2,683
<u>Pass through STANFORD UNIVERSITY</u>			
THE USE OF NMR LOGGING MEASUREMENTS TO ESTIMATE HYDRAULIC CONDUCTIVITY IN GLACIAL AQUIFERS, Number 2017CA01G	15.805	1663717-130957	6,577
<u>DEPARTMENT OF JUSTICE</u>			
<u>Direct Award</u>			
Evidence-Based Interventions in Juvenile Detention Facilities: The Role of Perceptions of Staff	16.734	2016-R2-CX-0026	19,696
<u>Pass through DOUGLAS COUNTY SHERIFF'S OFFICE</u>			
AID Evaluation	16.745	18164	15,790
<u>DEPARTMENT OF LABOR</u>			
<u>Pass through KANSAS BOARD OF REGENTS</u>			
The Demand for Community College Credits and Labor Market Outcomes	17.261	Agreement	18,154
<u>DEPARTMENT OF TRANSPORTATION</u>			
<u>Pass through CSRA</u>			
Airport Noise Simulation	20.000	9163212	39,543
<u>Pass through IOWA STATE UNIVERSITY</u>			
2016 Work Zone and Guardrail Safety Training Grant	20.215	436-17-35C	21,268
<u>Pass through KANSAS DEPARTMENT OF TRANSPORTATION</u>			
Self De-icing LED Signals	20.000	RE-0721-01	79,182
Construction of Low-Cracking High-Performance Bridge Decks Incorporating New Technology	20.205	RE-7000-01	89,198
2016 Local Technical Assistance Program (LTAP)- SPR	20.215	RE 0255-17 LTAP-R025	201,280
2018 Local Technical Assistance Program (LTAP) - SPR	20.215	LTAP-R0255(518)	96,779

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF TRANSPORTATION (Continued)</u>			
<u>Pass through LEDOS, INC.</u>			
Narrowing Freeway Lanes and Shoulders to Create Additional Travel Lanes	20.000	P010189192	\$ 9,571
Narrowing Freeway Lanes and Shoulders to Create Additional Travel Lanes	20.000	PO10199221	19,591
<u>Pass through LOUISIANA STATE UNIVERSITY</u>			
SDDOT Maintenance Decision Support System (MDSS) Operation Plan	20.205	PO-0000019616	20,347
<u>Pass through OK DEPARTMENT OF TRANSPORTATION</u>			
Evaluating the Performance of Existing Reinforcement for Oklahoma Bridges	20.200	2281-SPRY-0010-071RS	60,222
<u>Pass through SRA INTERNATIONAL INC</u>			
Simulation for Airport Noise	20.000	SRAS002482-1	24,728
<u>Pass through TEXAS A&M RESEARCH FOUNDATION</u>			
Performance Prediction and Analysis of Airfield Pavements Subjected to Next Generation Aircraft	20.108	12-S151230	89,933
<u>Pass through UNIVERSITY OF NEBRASKA - LINCOLN</u>			
University Transportation Centers Open Competition 2016	20.701	25-1121-0005-150	359,932
<u>FEDERAL COMMUNICATIONS COMMISSION</u>			
<u>Direct Award</u>			
Kansas Deaf Blind Equipment Distribution-Assistive Tech	32.000	Agreement	19,720
Kansas Deaf Blind Equipment Distribution-Assistive Tech	32.000	Agreement	111,387
<u>LIBRARY OF CONGRESS</u>			
<u>Pass through SOUTHWEST RESEARCH INSTITUTE</u>			
Electron Energy Distributions to be Measured by the Rosetta RPCIES Instrument	42.000	E99054DB	12,106
<u>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</u>			
<u>Direct Award</u>			
Energy Deposition in the Upper Atmospheres of Jupiter and Saturn by Energetic Particles: The Polar Aurora and Atmospheric Electrodynamics	43.001	NNX14AG79G	94,557
Unambiguous determination of ice sheet basal conditions from radio echo sounding data	43.001	NNX14AL99G	2,106
Adaptation of the Snow Radar for NASA Global Hawk and Ikhana Unmanned Aircraft in Support of Operation Ice Bridge	43.001	NNX13AQ30A	12,583
Ultra-high Energy particle Astrophysics with ANITA-4 - University of Kansas Co-I	43.001	NNX15AC19G	74,951
Airborne Radar Surveys of Land and Sea Ice and Data Processing Using CReSIS Instrumentation to Support IceBridge Observations	43.001	NNX16AH54G	1,597,350
Pilot Study: Biomarker Preservation Potential of a Sulfur-rich Evaporative Mars Analog	43.001	NNX17AJ59G	9,937
Controls on Iceberg Distribution Around Greenland	43.001	NNX16AJ90G	60,867
Confronting models of star formation quenching in galaxy clusters with archival Spitzer data	43.001	NNX17AF25G Sup 2	79,839
Extreme Energy Particle Astrophysics with ANITA-V - University of Kansas Center for Research, Inc. (Co-I)	43.001	80NSSC18K0461	6,087
Multichannel Sense-and-Avoid Radar for Small UAVs	43.002	NNX15AN94A	192,283
<u>Pass through BAY AREA ENVIRONMENTAL RESEARCH INSTITUTE</u>			
Developing Detailed 3D CAD Geometry for the NASA Viking UAS	43.001	Agreement	5
<u>Pass through SOUTHWEST RESEARCH INSTITUTE</u>			
Cassini Ion Neutral Mass Spectrometer (INMS) Team Member Participation	43.002	D99006L	40,672
<u>Pass through SPACE TELESCOPE SCIENCE INSTITUTE</u>			
Spatially Resolved Observations of Gas Stripping in Intermediate Redshift Clusters and Groups	43.000	HST-GO-12945.01-A	1,539
The role of quenching and merging in shaping the passive galaxy population	43.000	HST-AR-14310.001-A	(8,397)
<u>Pass through UNIVERSITY AT BUFFALO, STATE UNIVERSITY OF NEW YORK</u>			
Understanding Dynamic Outlet Glacier Behavior in Greenland: Synthesizing Altimetry Record and Numerical Modeling	43.001	R944412	49,103
<u>Pass through UNIVERSITY OF COLORADO</u>			
Participation in NASA Mars Atmosphere and Evolution mission	43.000	1546525	165,656
<u>Pass through WASHBURN UNIVERSITY</u>			
Terrestrial Impact of Nearby Supernovae	43.001	NASA-BT-14-001	3,617

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (Continued)			
Pass through WICHITA STATE UNIVERSITY			
Active Wing Shaping Control for Morphing Aircraft	43.008	WSU SUB 10429 v2	\$ 18,737
National Space Grant Consortium College and Fellowship 2016	43.008	9702-7	(55)
Adaptation and Demonstration of an UMB Radar for Rotorcraft UAS	43.008	R51357-4	49,560
Autonomous Tornado Damage Track Mapping Using a Small UAS	43.008	R51357-5	5,577
National Space Grant Consortium College and Fellowship 2017	43.008	9702-7-1	42,841
Competitive Programs: Research Experience: NASA Armstrong Internship Summer 2017 - Jeremy Katz	43.008	9702-8	6,150
NASA Academy at Marshall Space Flight Center for Jayden Garetson	43.008	9702-9	6,500
17-EPSCoRProp-0037, Efficient and Compact Thermal and Water Management Systems using Novel Capillary Structure for Space Technology	43.008	WSU#15675	4,924
Seed Research Initiation (SRI) Grant: Functionally Graded Lithium Metal Battery with High Energy Density and Ultra-Safety Functions	43.008	R51357-7-15595	33,823
Vision-Based Obstacle Sense and Avoid for Unmanned Aerial Vehicles	43.008	R51357-9-15585	5,343
Vision-Based Obstacle Sense and Avoid for Unmanned Aerial Vehicles	43.008	R51438-98-15586	2,745
INSTITUTE OF MUSEUM AND LIBRARY SERVICES			
Direct Award			
Scaling Emmet Till	45.160	FA-232416-16	(165)
Engaging Communities for the Common Good: Stories about Migration in the Public Square	45.164	LD-234347-16	16,997
NATIONAL SCIENCE FOUNDATION			
Direct Award			
Biomechanical Rehabilitation Engineering Advancement in Kansas	47.041	CBET-1160130	19,617
RET: Shaping Inquiry from Feedstock to Tailpipe with Education Development (SHIFTED)	47.041	EEC-1301051	85,832
Hydroxyapatite Formation during Hydrothermal Liquefaction of Algal Biomass: Synthesis and Catalytic Implications	47.041	CBET-1438652	74,929
GOALI - Balancing Flocs and Granules for Activated Sludge Process Intensification: Stoke's vs Fick's Laws	47.041	CBET-1512667	150,982
Collaborative Research: EAGER: Exploring the Feasibility of a Novel Thermosyphon/Heat Pipe Heat Exchanger with Low Air-Side Thermal Resistance	47.041	CBET-1435131	(65)
EAGER: Engineering the Ionic Polymer Phase Surface Properties in a PEM Fuel Cell Catalyst Layer	47.041	CBET-1518755	56,900
SusChEM: Novel Electrochemical CO2 Conversion Systems with CO2-Expanded Liquids	47.041	CBET-1605524	109,782
R11 Track-1: Microbiomes of Aquatic, Plant and Soil Systems (MAPS) mediating sustainability: An observational and experimental network across Kansas	47.041	OIA-1656006	1,067,084
WERF: Determining the fate and major removal mechanisms of microplastics in water and resource recovery facilities	47.041	CBET-001707069	88,084
Non-classical Micromorphic Continuum Model for Granular Microstructure Design	47.041	CMM-1727433	35,146
CAREER: Integrated Modeling of Hazard Mitigation Stakeholder Networks for Compassionate, Sustainable Risk Reduction	47.041	CMM-1751696	13,687
qubits	47.049	PHY-1314861	15,316
CAREER: Nanoscale ballistic spin transport in semiconductors	47.049	DMR-0954486	(220)
CAREER: Controlling non-adiabatic reaction dynamics in solution: A window on the fundamental details of photochemical reactions	47.049	CHE-1151555	63,618
Stochastic Analysis of Gaussian Fractional Noises	47.049	DMS-1208625	1,467
Stability of waves in discrete and continuous dynamical systems	47.049	DMS-1313107	453
Experimental Particle Physics at the Collider and Cosmic Ray Energy Frontiers	47.049	PHY-1306953	5,903
Statistical Inference on Memory Structure of Processes	47.049	DMS-1407819	30,003
Microanalytical Techniques to Study Single Cell Biochemical Processes	47.049	CHE-1411993	86,500
MR: Development of UHV SPM-TERS in situ Characterization Interfaced with UHV Sputtering-Atomic Layer Deposition System	47.049	DMR-1337737	13,385
NSMDS: Sustainable chemical innovations by an integrated design approach	47.049	CHE-1339661	479,351
CAREER: Understanding the role of quantum coherence in exciton transport and separation in molecular aggregates	47.049	Agreement	84,745
Enzymes of Ornithine-Hydroxamate Siderophores	47.049	CHE-1403293 001	57,689
Studies in Adaptive and Optimal Control of Stochastic Systems	47.049	DMS-1411412	101,823
Implicit sampling methods and their applications	47.049	DMS-1419069	119,742
Topics in Computational Dynamics	47.049	DMS-1419047	26,960
CAREER: Innovative Strategies for Fluorination of Common Functional Groups	47.049	CHE-1455163	148,024
CAREER: Catalysis on Singly Dispersed Bimetallic Catalytic Sites	47.049	CHE-1462121	110,688
Electron-positron experimental particle physics	47.049	PHY-1505464	443

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
<u>NATIONAL SCIENCE FOUNDATION (Continued)</u>			
Catalytic Synthesis via C-C Cleavage	47.049	CHE-1465172	\$ 117,387
Thermodynamics and Structure of Chemically Heterogeneous Solid-Liquid Interfaces	47.049	CHE-1465226	124,133
Topics in Algebraic Geometry: Gromov-Witten Theory and Donaldson-Thomas Theory	47.049	DMS-1600997	46,053
Stochastic partial differential equations, fractional noises and limit theorems	47.049	DMS-1512891	66,506
Probing and manipulating strained interfaces with oxide superconductors	47.049	DMR-1508494	189,621
Novel transport phenomena in two-dimensional crystals beyond graphene	47.049	DMR-1505852	107,856
Collaborative Research: Mapping and Tracking Conformational Control of Nitric Oxide Synthase Activation	47.049	CHE-1710613	59,320
Collaborative Research: The GOGREEN Survey - Caring about the Environment	47.049	AST-1517815	105,743
Stability and Long Time Behavior for Infinite-Dimensional Dynamical Systems	47.049	DMS-1516245	64,514
Local cohomology, the Frobenius endomorphism, D-module theory, and invariant theory	47.049	DMS-1623035	36,659
CAREER: First Principles Evaluation of Optical Activity in Solids	47.049	CHE-1650942	105,362
Electronic Structure and Reactivity of Peroxo- and Hydroxomanganese Compounds	47.049	CHE-1565661	121,439
Existence, Stability and Dynamics of Nonlinear Waves	47.049	DMS-1614785	49,394
Elementary Particle Physics with Collider Experiments	47.049	PHY-1607262	602,358
Collaborative research: Modelling and inference for spatiotemporal climate impacts on complex ecosystems	47.049	DMS-1714195	64,872
Stability of solitary waves in dynamical systems	47.049	DMS-1614734	69,794
Applying the Frobenius Morphism and Convexity to Study Singularities	47.049	DMS-1600702	41,987
Single Molecule Electrophoresis using Nanochannel Columns Fabricated in Thermoplastics	47.049	CHE-1660002	159,395
System of hyperbolic conservation laws and nonlinear wave equations	47.049	DMS-1715012	41,653
New algorithms to enable faster, more accurate analysis of hydrogen exchange mass spectrometry data	47.049	CHE-1709176	88,268
INFEWS NPH20: Supramolecular Recognition and Catalysis Targeting Phytate, an Organic Sink for Phosphate in the Human Phosphorus Cycle	47.049	CHE-1710535	85,075
Collaborative Research: The Effect of Filaments on the Gas in Galaxies	47.049	AST-1716690	5,778
Removing the Barriers to the Calculation of Activation Energies, Activation Volumes, and Mechanistic Insight for Chemical Dynamics	47.049	CHE-1800559	11,180
Understanding the Diversity and Biology of Microbes in Late Paleozoic Ecosystems	47.050	EAR-0949947	4,468
Collaborative Research: Life in a Volcanic Landscape: Early Jurassic Paleoenvironments and Paleobotany	47.050	ANT-1142495	(8,815)
Collaborative Research: Byrd Glacier Flow Dynamics	47.050	ANT-0944597	(6,221)
Collaborative Research: Investigating Lithologic and Stratigraphic Control on Hydrogeology in Neogene Strata of the Central High Plains Aquifer	47.050	EAR-1023285	17,231
Collaborative Research: Unlocking secrets of Earth's largest sand sea: Paleoenvironmental records of the Lower Jurassic Navajo Sandstone, Colorado Plateau, USA	47.050	EAR-1349558	9,454
Center for Remote Sensing of Ice Sheets (CREStIS)	47.050	PLR-0424589	535,486
MR1: Development of a high-power, large antenna array and ultrawideband radar for a Basler for sounding and imaging of fast-flowing glaciers and mapping internal layers	47.050	ANT-1229716	(300)
Collaborative Research EaSM2: Linking Human and Earth System Models to Assess Regional Impacts and Adaptation in Urban Systems and Their Hinterlands	47.050	AGS-1243060	92,115
CAREER: Improving Understanding of Antarctic Glacier Dynamics Through an Interactive Numerical Flowline Model	47.050	PLR-1255488	75,342
The interplay between methanotrophy, methanogenesis, and soil geochemistry and its impact on net methane flux to the atmosphere from Arctic soils	47.050	EAR1261748	(4,630)
RCN: Facilitating Indigenous Research, Science and Technology (FIRST)	47.050	PLR-1417767	50,546
Collaboratively Harnessing Indigenous Research Principles, Protocols, and Practices (CHIRP3)	47.050	PLR-1436506	113,085
Collaborative Research: Geoinformatics: Development of Structural Geology and Tectonics Data System with Field and Lab Interface	47.050	EAR-1347331	35,441
Collaborative Research: Stability and Dynamics of Antarctic Marine Outlet Glaciers	47.050	PLR-1543530	38,276
Collaborative Research: Lidar and Modeling Applications from the Precision Atmospheric Marine Boundary Layer Experiment (PreAMBLE) Dataset	47.050	AGS-1439515	17,164
Collaborative Research: Permian and Triassic Icehouse to Greenhouse Paleoenvironments and Paleobotany in the Shackleton Glacier Area, Antarctica	47.050	PLR-1443546	91,763
Doctoral Dissertation Research: Bridging Knowledge Systems to Improve Ecosystem Management along the Yukon River, Alaska	47.050	PLR-1504203	6,817
Collaborative Research: Experimental Investigation of Actinide Partitioning in Zircon and its Applications to Geochronology	47.050	EAR-1654637	39,089
INSPIRE: Forging new connections among mammalian evolution, climate change, and tectonics during the Eocene.	47.050	1543684	82,386
EarthCube Data Infrastructure: Collaborative Proposal: Development of an Integrated Data System for the Geological Field Sciences	47.050	ICER-1639734	184,993
EarthCube Data Infrastructure: Collaborative Proposal: A unified experimental-natural digital data system for analysis of rock microstructures	47.050	ICER-1639738	29,633

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
NATIONAL SCIENCE FOUNDATION (Continued)			
Collaborative Research: EAGER: The Language of the Forests: Gwich'in Seasonal Relationships to the Interior Alaska Boreal Forests	47.050	PLR-1650692	\$ 54,823
Activity, Preservation and Fossilization of Cryoconoliths Microorganisms in Antarctica	47.050	PLR-1544526	41,212
Collaborative Research: Mechanisms governing synoptic-scale, rapid cloud dissipation in subtropical marine low clouds	47.050	AGS-1656237	16,647
CAREER: Filling the Gaps in Domain-Specific Functional-Based Solutions High-Performance Execution	47.070	CCF-1350901	55,800
NeTS: Medium: Collaborative Research: Digital Subcarrier Multiplexed Networks: From the Core to the Access	47.070	CNS-1409853	81,361
NeTS: Small: Collaborative Research: Resilient Network Design for Massive Failures and Attacks	47.070	CNS-1219028	18,047
SBE TWC: Small: Collaborative Research: Privacy Protection in Social Networks: Bridging the Gap Between User Perception and Privacy Enforcement	47.070	CNS-1422206	35,032
SHF: Small: Collaborative Research: Explore, Understand, and Build a New Profiling Framework for Managed Language Virtual Machines	47.070	CCF-1619140	36,990
CC* Networking Infrastructure: A Science DMZ to Enable Friction-Free Scientific Data Workflow s	47.070	ACI-1659427	338,175
CSR: Small: The Deterministic Memory Approach for Predictable and High Performance Cyber Physical Systems	47.070	CNS-1718880	64,569
Problem	47.070	CCF-1717894	24,232
EAGER: Digital Inequalities in the Heartland: Exploring the Information Security Experiences of Marginalized Internet Users	47.070	CNS-1742815	104,131
CAREER: Integrating phylogenetics and development to investigate character evolution in hydrozoans	47.074	DEB-0953571	95,871
Delineating the roles of rising CO2 and temperature on flowering time across pre-industrial through future conditions	47.074	IOS-1457236	52,622
Collaborative Research: Discovery and analysis in the cradle of speciation theory: biotic surveys of Melanesia's terrestrial vertebrates	47.074	DEB-1557053	166,399
CAREER: Does crowding stabilize intrinsically disordered proteins?	47.074	MCB-1149538	70,242
Collaborative research- Evolution of living and fossil green lacewings (Chrysopidae): phylogenetics, informatics and a universal ontology for Neuroptera	47.074	DEB-1144162	19,925
COLLABORATIVE RESEARCH: Systematics of a pantropical diversification: the subsocial passerine birds	47.074	DEB-1146345	7,595
Digitization TCN: Collaborative Research: Digitizing Fossils to Enable New Syntheses in Biogeography - Creating a PALEONICHES-TCN	47.074	EF-1206757	41,192
Collaborative Research: Automated and community-driven synthesis of the tree of life	47.074	DEB-1208393	108,406
Genetic and developmental changes associated with the evolution of a hummingbird-pollination floral syndrome	47.074	IOS-1255808	(464)
Integrating Fossil Data into Likelihood-based Phylogenetic Analyses with Trilobites as a Model System	47.074	DEB-1256993	46,047
Dimensions: Collaborative Research: Historical and contemporary influences on elevational distributions and biodiversity tested in tropical Asia	47.074	DEB-1241181	76,041
ABI Innovation: Target - template structural and functional relationships in modeling of protein - protein interactions	47.074	DBI - 1262621	(16,928)
Collaborative Research: Unique structural proteins and cross-linking reactions that control physical properties of insect exoskeletons	47.074	IOS-1258027	23,418
CAREER: Teaching Modern Biodiversity Science from Fieldwork to Phylogeny: Diversity, Systematics, & Evolution of Ecologically Promiscuous Aquatic Beetles	47.074	DEB-1453452	96,972
ICOB: Molecular and morphological characterization of polar capsules in the parasitic Myxozoa	47.074	IOS-1321759	83,260
Digitization TCN: Collaborative Research: Fossil Insect Collaborative: A Deep-Time Approach to Studying Diversification and Response to Environmental Change	47.074	EF-1304957	132,740
SG: Evolutionary lag and the effects of clonal structure	47.074	DEB-1354754	37,258
IOS Preliminary Proposal: COLLABORATIVE RESEARCH: Genetics and development of parallel pollination system evolution in Penstemon	47.074	IOS-1555418	46,580
Collaborative Research: Fire-Fungal-Plant Feedbacks in Pyrogenic Ecosystems	47.074	DEB-1557000	190,607
Collaborative Research: Interactive Effects of Exogenous and Endogenous Spatial Heterogeneity on Plant Diversity	47.074	DEB-1456976	15,312
Collaborative Research: ABI Development: Transforming Biodiversity Analysis with Landscapes, Automation, and Provenance	47.074	DBI-1356732	191,556
Evolutionary dynamics of collateral gene silencing by piRNA	47.074	MCB-1413532	78,333
Studying proteasome assembly using a combination of modeling and experiment	47.074	MCB-1412262	59,387
Constraints on the evolution of chromosome dosage compensation: a test in butterflies and	47.074	DEB-1457758	160,643
Bridging observational, experimental and genomic insights on species and speciation through comparative analyses in a new vertebrate model systems	47.074	DEB-1457774	109,246
Collaborative Research: Hierarchical Functioning of River Macrosystems in Temperate Steppes - From Continental to Hydrogeomorphic Patch Scales	47.074	EF1442595	402,020

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
NATIONAL SCIENCE FOUNDATION (Continued)			
Collaborative Research: Connecting resources to enable large-scale biodiversity analyses	47.074	DBI-1458422	\$ 183,682
Collaborative Research: Out of the "Jungle" and into the Sea	47.074	DEB-1457776	44,867
Collaborative Research: beta-catenin regulation during asymmetric stem cell divisions	47.074	IOS-1456538	155,528
Geckos	47.074	DEB-1702036	13,577
DISSERTATION RESEARCH: The Evolution of Specialized Teeth and Jaws in Early Mesozoic Ray-Finned Fishes and Their Impact on Widespread Niche Differentiation	47.074	DEB-1502005	8,087
Protein Interactions regulate iron storage and utilization in bacteria	47.074	MCB-1615767	117,136
CSBR: Natural History: Stewardship of Paleobotanical Collections at the University of Kansas: Evolution of Seed Plants and Antarctic Fossil Plants	47.074	DBI-1561315	86,055
DIMENSIONS: COLLABORATIVE RESEARCH: The evolution of pollination syndrome diversity in Penstemon	47.074	DEB-1542402	160,668
REU Site: Models in Evolution, Ecology and Systematics	47.074	DBI-1560139	93,452
ABI Sustaining: Supporting Biological Collections Computing with Specify	47.074	DBI-1565098	372,600
doseR: a novel linear modeling framework for dosage compensation analysis	47.074	DBI-1661454	30,166
DISSERTATION RESEARCH: Using covariance to test hypotheses about the function and underlying genetic control of multi-component signals.	47.074	IOS-1601335	6,900
variation	47.074	DBI-1565107	321,235
DISSERTATION RESEARCH: Assessing multi-scale drivers of pollinator assembly and plant-pollinator network architecture in the context of prairie restoration	47.074	DEB-1600525	5,226
Digitization TCN: Collaborative Research: The Cretaceous World: Digitizing Fossils to Reconstruct Evolving Ecosystems in the Western Interior Seaway	47.074	DBI-1602067	155,381
Can improving predictions of soil oxygen dynamics increase understanding of greenhouse gas hotspots and hot moments?	47.074	DEB-1613325	182,432
Investigating novel functions of septate junction proteins during morphogenesis in Drosophila	47.074	IOS-1656835	109,619
Dimensions US-China: Collaborative Research: Microbe eco-evolutionary feedbacks as drivers of plant coexistence, diversity gradients, and overyielding	47.074	DEB-1738041	310,704
Collaborative Research: Ecological Dynamics of the Plant-Arbuscular Mycorrhizal Fungal Mutualism: Contribution to Plant Species turnover and Coexistence	47.074	DEB-1556664	142,443
RAPID: Decline and Resilience of White Ash Populations during an Emerald Ash Borer Invasion	47.074	IOS-1644618	65,842
Integrated Resource for Protein Recognition Studies	47.074	Agreement	3,016
LTREB Renewal: Long-term studies of secondary succession and community assembly in the prairie-forest ecotone of eastern Kansas	47.074	DEB-1655500	55,294
Collaborative Research: Phylogenetic Systematics and the Evolution of Reproductive Innovation in an Adaptive Radiation of Limnodynastes Fanged Frogs	47.074	DEB-1654388	111,641
DISSERTATION RESEARCH: Evolutionary Diversification and Community Assembly in Melanesian Forest Frogs: Testing the Hypothesis of Replicated Adaptive Radiation	47.074	DEB-1701952	12,764
DISSERTATION RESEARCH: Determining anucleated sperm function in Lepidoptera	47.074	DEB-1701931	5,480
Collaborative Research: Digitization TCN: oVert: Open Exploration of Vertebrate Diversity in 3D	47.074	DBI-1701932	8,382
Collaborative Research: ABI Development: Cultivating a sustainable Open Tree of Life	47.074	DBI-1759838	12,643
SG: Collaborative Research: Measuring intra-locus sexual conflict across the genome in a dioecious plant	47.074	DEB-1753630	13,826
Interactive Inner Asia: documenting an endangered language contact area	47.075	BCS-1065524	222
CAREER: Community Adaptation to Changing Environmental Disasters	47.075	BCS-1151288	63,752
The Acquisition of Northern Pame [pmq] (Otomanguean)	47.075	BCS-1360874	38,199
Collaborative Research: Separating transient and enduring forms of change in adult attachment styles	47.075	BCS-1423970	15,735
Race and gender stereotyping in evaluative language	47.075	BCS-1349043	15,837
Collaborative Research: Climate Risk Governance and Polycentrism in the US States	47.075	SES-1431082	30,302
Africa's Endangered Languages: Documentary and Theoretical Approaches	47.075	BCS-1360823	(58)
Effects of Native Language and Linguistic Exposure on Non-Native Listeners' Use of Prosodic Cues in Speech Segmentation	47.075	BCS-1423905	59,084
Collaborative Research: Integrated City Sustainability: Administrative Apparatus for Overcoming Collective Dilemmas of Agency Fragmentation	47.075	SES-1461526	17,391
Systematic Study of Group-Based Legal Mobilization	47.075	SES1535673	68,656
Understanding Gender Differences in STEM Academic Careers	47.075	SES1538797	27,510
CeMENT as a Networking Experiment	47.075	SES-1547054	37,552
Collaborative Research: EA GER: Automating HERD Reporting Using Machine Learning and Administrative Data	47.075	SMA1547464	53,745
Making words disappear or appear: A neurocognitive and behavioral investigation of effects of speech rate on spoken word recognition	47.075	BCS-1559719	23,373
Challenging Notions of the "Ideal" Victim: Identifying and Stereotyping Human Trafficking in Rural Kansas and Missouri	47.075	SES-1624317	12,378

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>NATIONAL SCIENCE FOUNDATION (Continued)</u>			
EAGER To Create Tools to Enhance NCSES Data	47.075	SMA-1647187	\$ 78,439
A Semantic Grammar of Kiowa - kio	47.075	BCS-1664431	40,304
Doctoral Dissertation Research: Environmental Risk Versus Economic Prosperity: Climate Change Denial and the Politics of Coastal Restoration in Southern Louisiana	47.075	SES-1703120	5,008
Doctoral Dissertation Research: Mixed-Status Families: Power, Identity, and Community	47.075	SES-1702837	10,678
Doctoral Dissertation Research: An ERP Investigation of Individual Differences in the Processing of Wh- Dependencies by Native and Non-Native Speakers.	47.075	BCS-1728019	6,908
Modeling Neural Processes as Analog Computations	47.075	SES-1754974	6,676
Enhancing Teaching and Learning with Social Media: Supporting Teacher Professional Learning and Student Scientific Argumentation	47.076	DRL-1316799	18,337
Deep Roots: Wide-Spread implementation of community-driven evidence-based Pedagogy	47.076	DUE-1525775	466,325
CyberCorps: New Scholarships for Service (SFS) Program at the University of Kansas - Jayhawk SFS	47.076	DGE-1565570	371,110
MATH: EAGER: Developing a Learning Map for Introductory Statistics	47.076	DUE-1544481	36,582
Collaborative Research: Transforming the Evaluation of Teaching: A Study of Institutional Change to Advance STEM Undergraduate Education	47.076	DUE-1726087	64,412
Collaborative Research: 2014-2017 Development of the Askaryan Radio Array Ultra-high Energy Neutrino Detector at the South Pole	47.078	PHY-1404289	76,287
Collaborative Research: People, landscape and narratives in time -Birniak and the emergence of Inupiaq culture in northwestern Alaska	47.078	PLR-1732344	91,716
Phase VI: Climate Change and Energy: Basic Science, Impacts, and Mitigation	47.079	EPS-0903806	109,144
Collaborative Research: Imaging and Controlling Ultrafast Dynamics of Atoms, Molecules, and Nanostructures	47.079	IA-1430493	423,395
RII Track-2 FEC: Catalysis for Renewables: Applications, Fundamentals and Technologies (CRAFT)	47.079	OIA-1539105	1,110,266
RII Track-2 FEC: Improving Water Management, Treatment and Recovery in Oil and Gas Production	47.083	OIA-1632892	870,815
<u>Pass through BATTELLE MEMORIAL INSTITUTE</u>			
Reaeration and Dissolved Gas Laboratory Analysis	47.074	597225	1,438
Mosquito Taxonomic Identification	47.074	Agreement	4,242
<u>Pass through CASE WESTERN RESERVE UNIVERSITY</u>			
Rf: Medium: Active Sensing, Localization and Mapping in Dynamic Deformable Environments for Image-Guided Interventions	47.070	RES510815	30,830
<u>Pass through COLLEGE OF CHARLESTON</u>			
CIF21 DIBBS: Collaborative Research: Cyberinfrastructure for Interpreting and Archiving U-series Geochronologic Data	47.070	521156-Kansas	15,432
<u>Pass through COLUMBIA UNIVERSITY</u>			
Geoinformatics Facility Support: Integrated Data Collections for the Earth and Ocean Sciences: The Marine Geoscience Data System and the Geoinformatics for Geochemistry Program	47.050	2(GG010799)	(24,786)
Collaborative Research: IEDA 2016-2021: Operation of a Multi-Disciplinary Data Facility for the Earth Science Community	47.050	3(GG013106-01)	193,365
<u>Pass through DUKE UNIVERSITY</u>			
Human and Natural Forcings of Critical Zone Dynamics and Evolution at the Calhoun Critical Zone Observatory	47.050	14-NSF-1078	80,170
<u>Pass through HISTORY COLORADO</u>			
A Study in the Integration of Western Knowledge and Native American Knowledge Bases	47.076	Agreement	6,173
<u>Pass through INDIANA UNIVERSITY</u>			
CIF21 DIBBS: Middleware and High Performance Analytics Libraries for Scalable Data Science	47.070	BL-4848800-UK	79,457
<u>Pass through JOHNSON COUNTY COMMUNITY COLLEGE</u>			
Johnson County Community College STEM Scholarship Project	47.076	19228	14,409
<u>Pass through KANSAS STATE UNIVERSITY</u>			
Rapid: Are Biogeochemical Responses Linked to the Microbial Composition of a Defined Nutrient and Microbial Input to a Large River	47.074	S18127	30,549
<u>Pass through KANSAS STATE UNIVERSITY SPA</u>			
Konza Prairie LTER: Grassland Dynamics and Long-Term Trajectories of Change	47.074	S15103.02	9,211
Konza Prairie LTER: Long Term Research on Grassland Dynamics and Global Change	47.074	S15099.02	33,625
<u>Pass through NATIONAL ECOLOGICAL OBSERVATORY NETWORK</u>			
Reaeration and Dissolved Gas Laboratory Analysis	47.074	2010-0358-AQU	82,787
Mosquito Taxonomic Identification	47.074	4010-0390-000	94,042
<u>Pass through NORTHERN ARIZONA UNIVERSITY</u>			
CNH-L: Scale-dependent feedbacks among protected areas and surrounding socio-ecological systems	47.074	1003088-01	20,245

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>NATIONAL SCIENCE FOUNDATION (Continued)</u>			
<u>Pass through OREGON STATE UNIVERSITY</u>			
The Zygomycete Genealogy of Life (ZyGoLife) - the conundrum of the Kingdom Fungi	47.074	S1696A-A	\$ 75,662
<u>Pass through PRINCETON UNIVERSITY</u>			
U.S. CMS Operations at the LHC	47.049	00002102	615
U.S. CMS Operations at the Large Hadron Collider	47.049	SUB0000197	62,763
<u>Pass through PROTON ONSITE</u>			
Hydrogen Bromine Electrolysis for Highly Efficient Hydrogen-Based Energy Storage and High Value Chemical Applications - Phase II	47.041	EC-017038-01	6,469
<u>Pass through SAINT CLOUD STATE UNIVERSITY</u>			
Collaborative Research: Diversification in the Deep-Sea and the Evolution of Fangs, Bioluminescence, Hermaphroditism, and Marine Habitat Transitions	47.074	149584	3,157
<u>Pass through SRI INTERNATIONAL</u>			
Scientific Productivity Data of SDR Sample through Linkage: Expanded Manual Validation	47.000	P020663	31,841
<u>Pass through THE LANGUAGE EXPRESS, INC.</u>			
TCP SBIR Phase II	47.041	19862	23,336
<u>Pass through TULANE UNIVERSITY</u>			
Effects of Anthropogenic Habitat Perturbation on Rodent Population Dynamics and Risk of Rodent-Borne Diseases	47.050	TUL-HSC-428-12/13	3,674
<u>Pass through UNIV OF NORTH CAROLINA AT CHAPEL HILL</u>			
Research Fellow for the Program on Mathematical and Statistical Methods for Climate and the Earth System	47.049	Agreement	14,921
<u>Pass through UNIVERSITY OF CALIFORNIA - SAN DIEGO</u>			
PRAAGMA - Enabling Scientific Expeditions and Infrastructure Experimentation for Pacific Rim Institutions and Researchers	47.080	59858222	758
<u>Pass through UNIVERSITY OF FLORIDA</u>			
Collaborative Research: Globalization and Evolving Agri-Food Networks: the Maize-Cattle Complex in Neoliberal Mexico and Implications for Land Change	47.075	UFDSP00011735	2,818
<u>Pass through UNIVERSITY OF ILLINOIS</u>			
CSR: Medium: Multicore Real Time Virtual Partitions	47.070	2013-01883-01	1
<u>Pass through UNIVERSITY OF MINNESOTA</u>			
CSBR: Natural History: Stabilization and Accessibility of the National Water-Quality Assessment Macroinvertebrate Collection	47.074	H005292801	9,568
<u>Pass through UNIVERSITY OF NEBRASKA - LINCOLN</u>			
NSF Cooperative Agreement for Phase-1 Upgrades of CMS	47.049	25-0521-0178-005	36,901
<u>Pass through UNIVERSITY OF NEW MEXICO</u>			
DataNetONE: Observation Network for Earth	47.070	063045-87L3	301,444
<u>Pass through UNIVERSITY OF NOTRE DAME</u>			
A QuarkNet Site at the University of Kansas: Engaging High School Physics Teachers in Particle Physics Research	47.049	Agreement	12,710
<u>Pass through UNIVERSITY OF PUERTO RICO</u>			
Puerto Rico Center for Environmental Neuroscience	47.076	2017-001258	13,628
<u>Pass through UNIVERSITY OF UTAH</u>			
Did Hunting or Climate Change Cause Late Holocene Bottleneck in CA Tule Elk?	47.075	10031187	49,889
<u>ENVIRONMENTAL PROTECTION AGENCY</u>			
<u>Pass through MISSOURI DEPARTMENT OF NATURAL RESOURCES</u>			
Development of Missouri Reference Wetlands	66.461	G14-WET-01	26,598
<u>DEPARTMENT OF ENERGY</u>			
<u>Direct Award</u>			
Understanding of Catalysis on Early Transition Metal Oxide-based Catalysts through Exploration of Surface Structure and Chemistry during Catalysis Using In-situ Approaches	81.049	DE-SC0014561	122,950
Mechanistic Studies to Enable Aerobic Oxidation of C-H Bonds by Manganese Catalysts	81.049	DE-SC0016359	132,430
Scrutinizing entrainment and mass flux closures in shallow cumulus parameterizations using cloud-radar observations and large-eddy simulation	81.049	DE-SC0016522	145,990
Study of quasi-collisional effects in laboratory and astrophysical plasmas	81.049	DE-SC0016368	59,217
Searches for New Phenomena Beyond the Standard Model	81.049	DE-SC0017965	55,085
Searches for New Physics in Standard Model Processes	81.049	DE-SC0017988	63,715
Molecular to Mesoscale Targeting of Oxoanions with Multi-Tasking Hosts	81.049	DE-SC0018629	6,765
Atomic and Molecular Physics in Strong Fields	81.049	DE-FG02-04ER15504	85,097
Research in Heavy-Ion Nuclear Physics at CMS	81.049	DE-FG02-96ER40981	422,930

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
DEPARTMENT OF ENERGY (Continued)			
Understanding Nanoscale Confinement Effects in Solvent-Driven Chemical Reactions	81.049	DE-FG02-05ER15708	\$ (166)
Small Scale Field Test Demonstrating CO2 Sequestration in Arbuckle Saline Aquifer and by CO2-EOR at Wellington Field, Sumner County, Kansas	81.089	DE-FE0006821	462,621
Integrated CCS for Kansas (ICKan)	81.089	DE-FE0029474	487,586
Pass through BATTELLE MEMORIAL INSTITUTE			
Assessing RTL-CO2 Phase Behavior	81.000	195234	48,622
Pass through GEORGIA INSTITUTE OF TECHNOLOGY			
A New IT-SOFC Based on a Dual-Phase (H+ & O2-) Electrolyte Tailored for Efficient Utilization of Hydrocarbon Fuels	81.135	RF183-G1	56,387
Pass through HONEYWELL			
Nano-hybrid radiation detector	81.000	N000162883	(1,189)
Miniaturization and Repacking of Microwave Comp. for Ultra-Wideband Radar	81.000	N000183939	129,485
2-18 GHz Broadband Receiver	81.000		332,483
TPM/Secure Boot Investigation	81.000	N000217880	47,581
Nano-hybrid radiation detector	81.000	N000217625	107,226
Miniaturization and Repacking of Microwave Components for Ultra-Wideband Radar Applications	81.000	N000259704	76,822
Pass through NATIONAL RENEWABLE ENERGY LABORATORY			
In-Situ X-Ray Photoelectron Spectroscopy for Advanced Catalyst Characterization	81.000	AHR-8-82109-01	3,225
Pass through PACIFIC NORTHWEST NATIONAL LABORATORIES			
Expression of Polyketide Synthases in <i>Aspergillus nidulans</i>	81.000	274485	12,517
Pass through UNIVERSITY OF CALIFORNIA REGENTS			
Konza Prairie Subcontract	81.000	7114774	86,790
Pass through VISTA CLARA, INC.			
Dynamic NMR Logging Technologies for High-Resolution Measurement of Hydrogeologic Properties and Soil Response	81.049	20080	19,774
DEPARTMENT OF EDUCATION			
Direct Award			
Funds for the Improvement of Postsecondary Education	84.116	P116Z990008	5,000,000
Improving Paraprofessionals Instructional and Behavioral Support In Urban Elementary School Settings: A Research Practitioner Partnership	84.305	R305H140048	1,881
The Effects of Promoting Engaging Early Literacy Interactions in Preschool Environments: Literacy 3D	84.305	R305A170241	405,599
Implementing Comprehensive, Integrated, Three-tiered Models to Meet Students' Academic, Behavior, and Social Needs: A Researcher-Practitioner Partnership	84.305	R305H150018-16	49,829
A Multi-Site Efficacy Trial of the Class-wide Function-related Intervention Teams "CW-FIT": A Research to Practice Agency for Students with and At Risk for EBD	84.324	R324A120344 - 15	32,718
The effects of online decision making support for home visitors using an RTI approach to promoting the language development of at-risk infants and toddlers	84.324	R324A120365 - 15	69,484
Topic 5; Goal 5; Assessing Self-Determination in the Era of Evidence-Based Practices: The Development and Validation of Student and Adult Measures of Self-Determination	84.324	R324A130065 - 15	226,083
Middle School Class-wide Function-related Intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	84.324	R324A160279	415,093
MTSS and Self-Determination: Examining the Impact of Tier 1 Supports to Promote Self-Determination and Academic Outcomes	84.324	R324A170008	130,182
Professional Development to Support Teachers' Implementation of a Tiered Model for Promoting Social Development of Infants and Toddlers	84.324	R324A170118	265,398
Validation of Cognitive Problem-Solving and Movement Infant-Toddler IGDIs for Screening and General Outcome Progress Monitoring	84.324	R324A150166-17	312,144
Measuring Early Communication Development in Children with ASD	84.324	R324A160072-17	326,067
Promoting Positive Transition Outcomes for Secondary Students with Intellectual Disability: A Research Institution-SEA Partnership in Rhode Island	84.324	R324L160002	87,196
Development of a Data-based Decision Making System to Support Educators' Promotion of Infants and Toddlers' Cognitive Problem-Solving Skills	84.324	R324A170141	188,792
Validity Studies of the Classroom Code for Interactive Recording of Children's Learning Environments (CIRCLE) (Version 2.0): A Preschool Eco-Behavioral Interaction Measure for Intervention Decision Making	84.324	R324A170048	234,849
KU ACCESS: Leadership in Access, College, Career, and Extensive and Significant Supports for Secondary Students with Severe Disabilities	84.325	H325D140031-17	259,891
Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel	84.325	H325D160080-17	142,277
Strengthening Outcomes for All learners in Inclusive Settings (SOARS)	84.325	H325K160141-17	251,198
The Schoolwide Integrated Framework For Transformation Center (SWIFT)	84.326	H326Y120005-16	2,513,164
Stepping Up: Sustainable Implementation of Innovations for Student Achievement (SIISA)	84.327	H327S120019 - 16	276,959

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF EDUCATION (Continued)</u>			
Making It Happen: Stepping Up Implementation of IGD Technology to Improve Data-based Decision Making for Infants and Toddlers with or at-risk for Disabilities	84.327	H327S140024 - 17	\$ 455,446
Stepping Up Technology Enabled Self-Monitoring For High School Students with Disabilities	84.327	H327S170001	54,768
KU Transition to Postsecondary Education for Youth with ID	84.407	P407A150017-16	407,407
<u>Pass through BELTON SCHOOL DISTRICT USD 124</u>			
Evaluation of the TEAM science teacher professional development program	84.366	19505	48,046
<u>Pass through INDIANA UNIVERSITY</u>			
Joint Attention Mediated Learning Intervention for Toddlers with Autism Spectrum Disorders and their Families	84.324	BL-4240321-UK	22,227
<u>Pass through KANSAS DEPARTMENT OF EDUCATION</u>			
Scaling-Up KSDE TASN Evaluation Proposal	84.027	652-15-1860	548,311
Kansas SPDG Evaluation 2012-17	84.323	652-17-1909	34,469
Kansas SPDG Evaluation	84.323	652-18-1939	37,117
Accessibility of Technology-Enhanced Assessments	84.368	652-12-1772	24,569
Use of Learning Maps as an Organizing Structure for Formative Assessment	84.368	652-16-1887	1,548,834
<u>Pass through KENAI PENINSULA BOROUGH SCHOOL DISTRICT</u>			
Using Assessments to Improve Teaching and Learning in the Kenai Peninsula Borough School District	84.367	260-92-4100-2040-410	1,953
<u>Pass through MARYLAND STATE DEPARTMENT OF EDUCATION</u>			
Innovations in Science Map, Assessment, and Report Technologies (I-SMART)	84.368	171414	946,485
<u>Pass through MISSOURI DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION</u>			
Secondary/Transition Communities of Practice	84.027	Agreement	7,800
<u>Pass through SAN FRANCISCO STATE UNIVERSITY</u>			
Implementing an Emergent Literacy Curriculum for Students with Intellectual Disabilities in General Education Classrooms	84.324	S15-0002	590,517
<u>Pass through SRI INTERNATIONAL</u>			
Principles of Cyberlearning to Redesign Secondary Courses to Improve Academic Outcomes Related to Higher Standards for Students with Disabilities and Other Underperforming Students	84.411	51-001305	45,038
<u>Pass through UNIVERSITY OF FLORIDA</u>			
The Center to Support the Development of Effective Educators to Serve Students with Disabilities	84.325	UFDSP00010564	124,898
<u>Pass through UNIVERSITY OF OREGON</u>			
National Technical Assistance Center on Positive Behavioral Interventions and Supports IV	84.326	224440C	42,377
<u>Pass through UNIVERSITY OF TEXAS-AUSTIN</u>			
Center for Postsecondary Outcomes for Deaf Individuals	84.326	UTA16-001045	25,382
<u>Pass through UNIVERSITY OF UTAH</u>			
Project ASPIRE: Achieving Success in Promoting Readiness for Education and Employment	84.418	10033712	50,904
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>			
<u>Direct Award</u>			
Adjuvants Discovery Program	93.000	HHSN272201400056C	1,887,719
Excellence in Youth Violence Prevention (YVPC) Mobility Assignment	93.000	16PA1605209	11,377
Kansas Serves Substance Affected Families	93.087	90CU0077-05-00	584,595
Development of an Integrated Mathematical Model for Comparative Characterization of Complex Molecule	93.103	5U01FD005285-03 REV	83,253
A Mobile Web-Based Parenting Intervention to Strengthen Social-Emotional Development of Very Low Birth Weight Infants	93.110	6R40MC26822-03-03	85,732
Bridging the Word Gap Research Network	93.110	5 UA6MC27762-04-00	232,975
TALK Around Town: A Mobile Application to Help Parents Bridge the Word Gap in Community Settings	93.110	Agreement	2,257
Proton Sponge Adhesives, Interfacial Milieu: Molecular Structure-Mechanics	93.121	5R01DE022054-05 REV	35,677
Peptide-Polymer Engineering Dentin/Adhesive Interfacial Bond Integrity	93.121	5R01DE025476-03	411,458
Exploring the Causal Impacts of Economic and Social Safety Net Policies on Child Neglect in the U.S.: Implications for Primary Prevention	93.136	R01CE002814-02	360,443
Twins and Singletons with Specific Language Impairments	93.173	4R01DC005226-15 REV	322,547
Interactive book reading to accelerate word learning by children with SLI	93.173	5R01DC012824-05	293,311
Peer-Mediated AAC Intervention for Children with Autism: Effects on Communication	93.173	4R01DC012530-04	105,204
Biobehavioral Sciences of Communication Disorders	93.173	4P30DC005803-15 REV	187,765
Morphosyntactic Abilities of SLI Probands	93.173	5R01DC001803-22 REVISED	531,494
Trauma exposure, emotion regulation and cognitive skills in early childhood: Prospective and longitudinal examination of the mechanisms of adjustment	93.242	5R01MH079252-07	610,216
Motor abnormalities and functional brain mechanisms in autism spectrum disorder	93.242	1R01MH112734-01A1	132,216

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)			
Behavioral Health Scholars Program	93.243	G02HP27982-03-02	\$ 318,309
Investigation of Neoclerodanes as Novel Opioid Ligands	93.279	5R01DA018151-12 REV	495,750
Evaluation of Physicochemical Properties Imparted by Fluorinated Peptidomim	93.279	4R33DA036730-03	362,475
Microfluidic Integrative Circulating miRNA Profiling for Cancer Diagnosis	93.286	1R21EB024101-01	105,750
Biotechnology Resource Center of Biomodular Multi scale Systems CBM2 for Precision Molecular Diagnostics	93.286	P41EB020594-04	1,755,006
Integrated Digital Microfluidic Platforms for Next-Generation Glycomics	93.310	1R21CA207816-02	245,037
Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression	93.310	1DP5OD023118-02	438,009
Designed Beta-strands for inhibiting efflux pumps and disabling antibiotic resistance	93.310	1DP2GM128201-01	335,335
A resource for the Genetic Analysis of Complex Traits	93.351	5R01OD010974-09 REVISED	742,200
Cognitive and Emotional Processes of Metaphorical Cancer Communications	93.393	5R01CA185378-04	331,344
O-GlcNAcylation of Ewing sarcoma proteins in chromosomal maintenance	93.393	1R03CA223949-01	18,446
Integrated Microfluidic Exosome Profiling for Early Detection of Cancer	93.394	5R21CA186846-03	111,339
Integrated exosomes profiling for minimally invasive diagnosis and monitoring of cancer	93.394	R33CA214333-01	135,606
Acute Myeloid Leukemia: MRD Analysis Using Modular uFluidics and uFlow Cytometry	93.394	7R21CA173279-04	110,296
Development of Hsp90 inhibitors for the treatment of cancer	93.395	4R01CA167079-05	19,652
Biomaterials for treatment of head and neck cancer	93.395	5R01CA173292-05	391,738
Small molecules modulating RNA-binding protein Msi1	93.395	5R01CA178831-03 REV	232,719
Molecular cancer therapy targeting HuR-ARE interaction	93.395	5R01CA191785-03	366,806
Development and Evaluation of Purine and Coumarin Based Hsp90 Inhibitors	93.395	5R01CA120458-12S1	55,200
Synthetic Lethal Targeting of Growth Factor Receptors	93.395	1R01CA211720-01	331,009
The Development of Organelle Specific Hsp90 Isoform-Selective Inhibitors	93.398	5F99CA212467-02	10,881
Access to Success: Replication and Impact of a Training Program Supporting Post-Secondary Students in Requesting Disability Accommodations	93.433	90IF0082-03-01	91,512
Rehabilitation Research and Training Center on Community Living	93.433	90RT5015-02-01	261,174
Assessing Family Employment Awareness Training (FEAT)	93.433	90IF0058-02-02	29,102
I-CONNECT PLUS: Enhancing Community Participation for Adolescents and Adults with ASD using Online Instruction, Coaching, and Accessible Self-Management Technologies	93.433	90DP0058-04-00	392,340
Research and Training Center on Community Living	93.433	90RT5043-02-01	636,177
Reducing Expulsion & Suspension by Coaching Early Educators (RESCUEE)	93.575	90YE0198-01-00	9,929
Behavioral Health Workforce Education and Training (BHWET) Program	93.732	1 M01HP313600100	71,526
A Randomized Trial of Recommendations for Exercise to Prevent Weight Regain	93.837	4R01HL111842-05	161,255
Chaperones in Diabetic Peripheral Neuropathy	93.847	4R01DK095911-04	94,079
Weight management in rural health clinics	93.847	1R01DK108732-02	580,606
Modulating the BBB to Improve Drug Delivery to the Brain	93.853	5R01NS075374-04	(2,975)
Chaperone Therapeutics for the Treatment of DPN	93.853	2R01NS075311-05	20,252
HTS to identify small molecules to disrupt abnormal huntingtin interactions in HD	93.853	5R01NS088059-04	407,451
RAGE and mitochondrial degeneration in diabetes	93.853	R01NS089116-04	317,032
Elucidating the Role of Neuroactive Steroids in Tourette Syndrome	93.853	F31NS093939-02	27,297
Regulation of growth cone protrusion in Netrin-mediated axon repulsion	93.853	1R56NS095682-01A1 REV	209,150
The role of ETR-1/CELF1, an RNA binding protein, in Neuronal Migration	93.853	1R21NS100483-02	56,545
Characterization of PTMs on Env to support HIV vaccine development	93.855	5R01A1094797-04	12,306
NMR studies of bacterial needle and tip proteins	93.855	5R01A1074856-10	355,180
The Regulation of Autolysis in Enterococcus Faecalis	93.855	5R01A1077782-06	(3,540)
Stable needleless vaccine against Shigella spp	93.855	1R21A1105467-02	(78)
The role of peptide signaling in Enterococcus faecalis biofilm development	93.855	1R21A1117424-01A1	194,934
The multiple states of IpaB Shigella type III secretion	93.855	5R01A1099489-06	329,407
Assessment of serotype-independent immunity elicited by Shigella T3SS protein	93.855	5R01A1113307-04	407,487
Assembly/function of the sorting platform of the Shigella type III secretion apparatus	93.855	5R01A1123351-03	442,724
Chemical tools for perturbing iron homeostasis in P. aeruginosa	93.855	5R01A1125529-02	222,764
Generating Native Env Glycosylation in HIV Vaccine Candidates	93.855	5R01A1125093-02	726,061
Transposon mutagenesis for Chlamydia trachomatis	93.855	R21A1125929-02	178,435
Molecular Analysis of Disease Pathways	93.859	2P20GM103638-06 REV	2,273,289
University of Kansas/Haskell Indian Nations University IRACDA Project	93.859	3K12GM063651-15S1	300,780
Integrated Resource for Protein Recognition Studies	93.859	5R01GM074255-13	475,809
Development of a rapid glycosylation profiling system using mass spectrometry data	93.859	RGM103547B	252,345
Protein Structure and Function	93.859	5P30GM110761-04	1,137,336
Legacy continuation of the KU CMLD Mission	93.859	5R24GM111385-03	217,356
Chemical Biology for Infectious Disease	93.859	P20GM113117-03	2,150,788

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)</u>			
Mentoring Workshop for New Faculty in Organic and Biological Chemistry	93.859	5U13GM070824-13	\$ 35,231
Regulation of kinetochore function by Topoisomerase II	93.859	5R01GM112793-03S1	361,464
Understanding the roles of PTMs in modulating molecular functions of lysyl oxidase-like 2 in breast cancer cells	93.859	5R01GM113101-04	256,179
KU Post Baccalaureate Research Education Program (PREP)	93.859	5R25GM078441-12	362,152
Antimicrobial peptides as models for the evolution of gene duplication	93.859	4R00GM114714-03	266,600
Fluoroalkylethers and Fluorinated Ethermimetics	93.859	1R35GM124661-01	279,556
Mechanisms of Gamma-Secretase	93.859	1R01GM122894-01A1	163,183
A Genomic Analysis of Complex Trait Variation in Mimulus	93.859	5R01GM073990-08 REV	17,839
Methods for Bioactive Compound Synthesis	93.859	4R01GM077309-08	45,019
Kansas Intellectual and Developmental Disabilities Research Center (KIDDRC)	93.865	5P30HD002528-49REV	40,052
Molecular determinants of retinoid metabolism in embryonic tissues	93.865	5R01HD077260-04 REV	157,387
The CCS: A Treatment Outcome Measure for Individuals with Severe ID	93.865	5R01HD076903-05 REV	188,244
The effects of parenting on the development and behavior of FXS adolescents	93.865	5R01HD084563-02	488,993
Label-free quantitative proteomic methods for developmental pharmacology	93.865	1R03HD089006-01	57,566
Kansas Intellectual and Developmental Disabilities Research Center	93.865	5U54HD090216-02	1,332,024
Mitochondrial degrading enzyme, synaptic mitochondrial function in AD mouse model	93.866	5R01AG044793-04	386,879
Role of cyclophilin D in Abeta-induced synaptic injury	93.866	5R37AG037319-08	225,056
TOMM40-mediated mitochondrial dysfunction and Alzheimer's disease	93.866	1R56AG053041-01A1	192,106
Role of Clusterin in Brain Mitochondria	93.866	1R21AG055964-01	129,042
Membrane-anchored amyloid peptides in Alzheimer's disease	93.866	7R21AG052751-02	129,427
TOMM40-mediated mitochondrial dysfunction and Alzheimer's disease	93.866	1R01AG053041-01A1	390,937
Preventing Youth Violence by Addressing Social Determinants Through the KC Youth Violence Prevention Project	93.910	5 YEPMP170096-02-00	83,944
<u>Pass through ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES</u>			
Act Early Ambassador Application	93.424	Agreement	3,126
<u>Pass through BATTELLE MEMORIAL INSTITUTE</u>			
Studying Community Programs to Reduce Childhood Obesity	93.000	236802	3,052
Studying Community Programs to Reduce Childhood Obesity	93.000	236802	(19,364)
<u>Pass through BIOFLUIDICA</u>			
Integrated Systems for the Analysis of Circulating Multiple Myeloma Cells (CMMCs)	93.394	19398	266,353
<u>Pass through CHAPEL HILL TRAINING OUTREACH PROJECT IN</u>			
National Center for Community-Based Child Abuse Prevention	93.590	Agreement	13,576
National Center for Community-Based Child Abuse Prevention	93.590	90CZ0024	54,476
<u>Pass through CHILDREN'S MERCY HOSPITALS & CLINICS</u>			
Adapting the Diabetes Prevention Program for a developing world context	93.837	16-0004	1,926
<u>Pass through COMMUNITY HEALTH COUNCIL OF WYANDOTTE COUNTY</u>			
Connecting the Dottes: Finding and Building Intersections Between Access to Healthy Food & Walkable Neighborhoods	93.757	Agreement	17,046
Connecting the Dottes: Finding and Building Intersections Between Access to Healthy Food & Walkable Neighborhoods	93.757	Agreement	15,254
<u>Pass through ELLENSON INTEGRATION ENTERPRISES INC.</u>			
Development of a new approach to screening for language impairments	93.173	16837	14,754
<u>Pass through EVOKE MEDICAL</u>			
Development of an Osteoinductive Spinal Fusion Implant for Enhanced Fusion Rates	93.846	18909	13,609
<u>Pass through FUTURES WITHOUT VIOLENCE</u>			
Quality Improvement Center on Child Welfare Involved Children and Families Experiencing Domestic Violence	93.670	2191	317,629
<u>Pass through HAFION LLC</u>			
Generating synergy between non-protein and protein macromolecular adjuvants	93.000	HHSN272201700065C-Su	60,278
<u>Pass through HEALTH RESEARCH, INC.</u>			
B cell epitope discovery and mechanisms of antibody protection	93.000	4889-03	105,659
B cell epitope discovery and mechanisms of antibody protection	93.000	4889-04	179,645
<u>Pass through INDIANA UNIV -PURDUE UNIVERSITY INDIANAPOLIS</u>			
BREA THE-OUT Burnout Reduction: Enhanced Awareness, Tools, Handouts, and Education-Organizational Understanding and Training	93.242	Agreement	2,676
<u>Pass through IOWA STATE UNIVERSITY</u>			
Targeting Plasmodium apicoplast DNA replication for the treatment and prevention of malaria	93.855	430-46-04A	120,132

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)</u>			
<u>Pass through KANSAS CHILDRENS CABINET AND TRUST FUND</u>			
Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP) 2016	93.590	40022	\$ 388
Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP) 2016	93.590	CBCAP-2017/2018-C	93,045
<u>Pass through KANSAS DEPARTMENT FOR AGING AND DISABILITY SERVICE</u>			
Supported Employment Program	93.243	Agreement	162,045
Title XIX-Adult Mental Health	93.778	Agreement	47
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>			
Kansas MIECHV Competitive Evaluation	93.505	Agreement	321,075
Kansas MIECHV Program	93.505	Agreement	98,462
MIECHV Innovation 2016-2018	93.870	51606	229,531
Kansas MIECHV Program	93.870	Agreement	72,632
Healthy Start Initiative: Eliminating Disparities in Perinatal Health	93.926	Agreement	(9,435)
Healthy Start Initiative: Eliminating Disparities in Perinatal Health	93.926	PO53720	136,754
Evaluation of Maternal and Child Health Efforts in Kansas	93.994	Agreement	38,829
<u>Pass through KANSAS STATE UNIVERSITY</u>			
High-throughput assays for inhibitors of the Hsp100 molecular chaperones	93.855	S17042	23,518
Discovery of GPCR-Targeted Insecticides for Malaria Mosquito Control	93.855	S18108	7,215
<u>Pass through KANSAS STATE UNIVERSITY SPA</u>			
Norovirus 3CL Protease-Based Anti-norovirus Therapeutics	93.855	S14158.05	26,501
<u>Pass through LEIDOS BIOMEDICAL RESEARCH INC.</u>			
Development and Application of Antibody Optimization Technologies to Improve Public Health	93.000	18X007	183,454
Characterization, Stabilization and Formulation of Virus Like Particle (VLP) Based Monovalent and Multivalent Equine Encephalitis Virus (EEV) Vaccines	93.395	12XS502	(2,154)
<u>Pass through LOUISIANA STATE UNIVERSITY</u>			
Chemical tools for perturbing iron homeostasis in P. aeruginosa	93.855	PO-0000060806	8,271
<u>Pass through MATERIA INC.</u>			
Recyclable Magnetic Co/C Hybrid ROMP Reagents, Scavengers and Ligands	93.859	16951	157,762
<u>Pass through NANOPROBES, INC.</u>			
Luminescent metal complex probes for correlative microscopy	93.859	Agreement	2,587
<u>Pass through NATIONAL INSTITUTES OF HEALTH</u>			
Development of a next generation vaccine to prevent pertussis	93.855	1R21A1136525-01	136,834
Improved Informatics for Epitope Mapping by Hydrogen Exchange-Mass Spectrometry	93.855	1R21A1135701-01	30,998
Vaccines to counter emerging antibiotic resistance	93.855	1R01A1138970-01	20,410
<u>Pass through OK DEPARTMENT OF MENTAL HEALTH & SUBSTANCE ABUSE</u>			
Evaluation of the Oklahoma Partnership Initiative, Phase 2 2012-2017 Project	93.087	4529051282	27,210
Evaluation of the Oklahoma Partnership Initiative, Phase 2 2012-2017 Project	93.087	4529053354	20,789
Oklahoma Partnership Initiative, Phase 3: Program Evaluation	93.087	4529055846	52,683
Okmulgee County Family Drug Court Enhancement Evaluation	93.243	Agreement	62,058
<u>Pass through PENNSYLVANIA STATE UNIVERSITY</u>			
Family Migration and Early Life Outcomes	93.865	5470-UK-DHHS-0659	40,469
<u>Pass through PINNACLE TECHNOLOGY INC</u>			
A Tissue Implantable Microbiosensor	93.242	Pin 2015-168KU	97,420
Development of a GABA Oxidase Enzyme For Biosensing Applications	93.242	PIN 2017-173KU	208,358
<u>Pass through QUALITY TRUST FOR INDIVIDUALS WITH DISABILITIES</u>			
Supported Decision-Making Technical Assistance and Resource Center	93.631	Agreement	62,379
<u>Pass through RESEARCH INSTITUTE OF FOX CHASE CANCER CENTER</u>			
Identifying stabilizers of p53 using pocket complementarity	93.859	FCCC15101-01	10,673
<u>Pass through SAINT LOUIS UNIVERSITY</u>			
Dissecting the Contribution of Viral Genetic Variation to HSV-1 Neuropathogenesis	93.853	eRS 38666	98,093
<u>Pass through SANFORD BURNHAM PREBYS MEDICAL DISCOVERY</u>			
Identification of the molecular mechanism of miR-211 and its target genes in melanocytes and pigmented melanoma senescence and apoptosis	93.396	59675-12918	(436)
<u>Pass through SOLIGENIX, INC.</u>			
Development of stabilized adjuvanted vaccines for biodefense	93.855	Agreement	(1,045)
<u>Pass through SYRACUSE UNIVERSITY</u>			
Community Living and Supported Decision-Making	93.433	28373-04197-S01	163,808
<u>Pass through THOMAS JEFFERSON UNIVERSITY</u>			
Targeting HuR to improve a synthetic lethal therapy for pancreatic cancer	93.395	080-31000-S24701	10,045

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
RESEARCH AND DEVELOPMENT CLUSTER (Continued)			
DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)			
Pass through TULANE UNIVERSITY			
Pediatric HIV/Aids Cohort Study (PHACS)	93.865	TUL-HSC-554714-17/18	\$ 18,629
Pass through UNIVERSITY OF ALABAMA-TUSCALOOSA			
Natural disaster effects on aggressive children and their caretakers: Outcomes across time	93.865	UA14-016	32,060
Pass through UNIVERSITY OF GEORGIA			
A radical new paradigm for heme degradation in enteric pathogens	93.859	RR166-642/S001480	23,080
Pass through UNIVERSITY OF KANSAS CANCER CENTER			
NCI Cancer Center Support Grant	93.397	QJ85912A - Neufeld	7,572
Pass through UNIVERSITY OF KANSAS MEDICAL CENTER			
Dissecting allosteric in pyruvate kinase	93.859	ZAF00010	22,629
Pass through UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE			
Pharmacokinetic and Metabolism Studies of Auranofin as a Treatment for Relapsed Chronic Lymphocytic Leukemia	93.000	QW853790	(12,858)
Dark Amyloid and Mitochondrial Dysfunction	93.000	Y8S00112	25,459
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBU0000	11,130
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBU0003	13,101
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBK00000	148,911
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBT00000	12,607
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBU0006	3,166
Frontiers: The Heartland Institute for Clinical and Translational Research	93.350	ZPBU0004	10,914
S.C.O.R.E. Students for Community-Oriented Research and Education	93.351	ZAC00010	36,027
Evaluation of the NIH SEPA T-SCORE Project	93.351	ZAC00010-Ginther	24,089
Rural Disparities in Pediatric Obesity: The iAmHealthy Intervention	93.361	ZAD00070	11,658
TEEN Connections for Support from Multidisciplinary Professionals & Peers	93.361	ZAS00070	2,014
Novel Dual Notch/PXR Targeting for Colon Cancer Therapy	93.395	QA863650	14,544
Targeting Kinesin Family Member 15 for the Treatment of Cancer	93.395	ZAG00020	385,150
New HuR inhibitor against pancreatic cancer EMT and CSCs	93.395	ZAC00070	9,668
NCI Cancer Center Support Grant- Core C Lead Development Optimization	93.397	QJ85912C- A.Roy	(1,410)
NCI Cancer Center Support Grant- Core C Lead Development Optimization	93.397	QJ85912C - A. Roy	2,314
NCI Cancer Center Support Grant- Core C Lead Development	93.397	QJ85912C-Baltezor	4,306
Role of O-GlcNAcylation of Ewing sarcoma proteins in chromosomal instability	93.397	ZPJ0001E	25,162
NCI Cancer Center Support Grant Lead Development & Optimization Shared Resource	93.397	ZPJ00010-Schoenen	29,753
NCI Cancer Center Support Grant Lead Development & Optimization Shared Resource	93.397	ZPJ00010-Baltezor	65,160
NCI Cancer Center Support Grant	93.397	ZPJ00010 - Neufeld	20,058
NCI Cancer Center Support Grant	93.397	ZPJ00010-Roy	15,818
NCI Cancer Center Support Grant	93.397	ZPJ0001E	22,588
Online and Applied Systems for Intervention Skills (OASIS) Parent Training Program	93.433	Z1H00000	8,264
Project EAGLE Early Head Start Expansion	93.600	QS814212	17,465
Project EAGLE KC Educare Assessment and Evaluation	93.600	Y8S000H0	953
Project EAGLE Early Head Start Expansion	93.600	QS814213	95,411
Texting for Mobility in Overweight/Obese Adults with Peripheral Artery Disease	93.837	ZAC00090	21,362
Teacher vs. Remotely Delivered Classroom Physical Activity Breaks	93.847	ZAD000A0	13,221
Morphogenetic Tissue Movements in Early Embryos	93.859	QC865820	10,351
Cellular Pathologies Arising from Metabolic Trade-offs	93.859	QW864610	(793)
Towards exome analyses: Surprising outcomes from mutating nonconserved positions	93.859	ZAS00080	35,583
New antibacterial therapeutics using phage-based, channel-forming polypeptides	93.859	QL859701	8,566
Molecular Characterization of Hepatic Organic Anion Transporting Polypeptides	93.859	ZAH00000 MOD1	12,982
Biomechanical functions of septate junction proteins in Drosophila dorsal closure	93.859	PO 1000894213	41,140
Service contract for the Hiseq2500 in the Genome Sequencing Core	93.859	PO#1000894214	15,000
K-INBRE Undergrad Coord yr 3 PROVISIONAL	93.859	PO#1000894217	219,353
K-INBRE Campus Coord yr 4	93.859	PO#1000894218	14,681
K-INBRE Star Trainees yr 4	93.859	1000894215	22,241
K-INBRE Bioinformatics Core Facility	93.859	1000894219	136,993
K-INBRE Summer Scholars yr 4	93.859	1000894216	24,036
K-INBRE Bioinformatics Core	93.859	Agreement	23,072
Weight Management for Adolescents with IDD	93.865	QD867310	1,373
momHealth: Mobile Multiple Health Behavior Change in Teen Pregnancy & Parenting	93.865	ZAW00020	4,370
Oxidation of ceruloplasmin as a novel biomarker for Alzheimer's disease	93.866	QS85525X	7,813

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>RESEARCH AND DEVELOPMENT CLUSTER (Continued)</u>			
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)</u>			
<u>Pass through UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE (Continued)</u>			
Mito Genomics Metabolism	93.866	QS85526G	\$ 181,173
Intervention to Reduce Sitting Time in Mild Cognitive Impairment (ReST-MCI).	93.866	QS85526V	9,944
University of Kansas Alzheimer's Disease Core Center	93.866	QS85526B	7,203
University of Kansas Alzheimer's Disease Core Centers	93.866	QS85526A	5,547
Non-invasive BDNF Brain Delivery through the BBB in Alzheimer's Mouse Models	93.866	Y8S00114	10,315
University of Kansas Alzheimer's Disease Core Centers	93.866	QS85526A	24,339
Prescribing Smart Aging: Integrating Health Systems with Community-Based Lifestyle Interventions	93.866	ZAB00040	23,320
Contract for Supports for Children and Youth with Special Health Care Needs (Northeast Kansas Tribal Developmental Disabilities Services Improvement)	93.994	QJ814305	3,002
<u>Pass through UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL</u>			
Diet quality, parental perceptions, and weight gain among adolescents with an intellectual/developmental disability	93.110	WA00538863/OSP201718	45
<u>Pass through UNIVERSITY OF MICHIGAN</u>			
The Effect of Built and Social Environments on Childhood Obesity and Racial/Ethnic Disparities in the National Healthy Communities Study	93.837	3004660464	6,356
<u>Pass through UNIVERSITY OF MONTANA</u>			
RRTC on the Ecology of Rural Disability	93.433	PG17-65494.03	24,978
<u>Pass through UNIVERSITY OF NEW MEXICO</u>			
IRACDA Plus	93.859	P0143734	3,461
<u>Pass through UNIVERSITY OF NOTRE DAME</u>			
Chaperone therapeutics for the treatment of DPN	93.853	203177UK	14,234
<u>Pass through UNIVERSITY OF SOUTH FLORIDA</u>			
Grp94-selective inhibitors to treat hereditary glaucoma	93.867	6144-1116-00-A	42,967
<u>Pass through UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER</u>			
KOR agonist functional selectivity in peripheral sensory neurons	93.279	158920/158919	193,921
<u>Pass through UNIVERSITY OF WASHINGTON</u>			
Functional Genomics for Chlamydia	93.855	UWSC9070	229,337
Functional Genomics for Chlamydia	93.855	UWSC9656	51,021
<u>Pass through VIRGINIA TECH</u>			
Identification of novel HSV-1 ICP0 E3 ligase targets by mass spectrometry in neurons	93.853	432053-19799	890
<u>Pass through WASHINGTON STATE UNIVERSITY</u>			
The Collaborative on Health Reform and Independent Living	93.433	126140 G003511	73,858
<u>Pass through WICHITA STATE UNIVERSITY</u>			
The Aging Pituitary-Gonadal Axis	93.866	SUB090220-4-1	<u>(8,218)</u>
TOTAL RESEARCH AND DEVELOPMENT CLUSTER			85,089,210
<u>TRIO Cluster</u>			
<u>DEPARTMENT OF EDUCATION</u>			
<u>Direct Award</u>			
Student Support Services Program	84.042	P042A110606-15	(1,092)
University of Kansas TRIO Student Support Services - SES	84.042	P042A160846	319,923
University of Kansas TRIO Student Support Services-STEM	84.042	P042A150254-17	233,474
University of Kansas Talent Search	84.044	P044A110799	(5,324)
University of Kansas Talent Search (KUTS)	84.044	P044A160170	396,514
University of Kansas Upward Bound Program	84.047	P047A130144 - 17A	421,899
The University of Kansas Upward Bound Math and Science Center	84.047	P047M120139-16	168,327
The University of Kansas Veterans Upward Bound Program	84.047	P047V130043-17	288,139
University of Kansas Math & Science Center	84.047	P047M170310	108,735
University of Kansas Upward Bound Math & Science (KU-UBMS)	84.047	P047M170490	101,691
University of Kansas EOC	84.066	P066A160048-17	250,841
University of Kansas EOC - Leavenworth and Franklin County	84.066	P066A160079	258,806
McNair Scholars Program	84.217	P217A120075 - 16	109,988
McNair Scholars Program	84.217	P217A170081	<u>133,910</u>
TOTAL TRIO CLUSTER			2,785,831

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>TANF Cluster</u>			
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>			
<u>Pass through KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>			
Kansas Reading Road Map Evaluation	93.558	Agreement	\$ (28,553)
e.p.i.c.skillz project	93.558	OGC-2015-KUEPIC-01	20
Kansas Reading Road Map Evaluation	93.558	Agreement	13,880
e.p.i.c.skillz project	93.558	OGC-2015-KUEPIC-01	10,086
e.p.i.c.skillz project - FY 18	93.558	EES-2018-KUEPIC-01	173,882
Kansas Reading Road Map Evaluation	93.558	39403	<u>234,637</u>
TOTAL TANF CLUSTER			403,952
<u>MATERNAL, INFANT, AND EARLY CHILDHOOD HOME VISITING CLUSTER</u>			
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>			
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT</u>			
Kansas MIECHV Formula Fund	93.505	Agreement	243,168
Pass through STATE OF NEBRASKA DEPARTMENT OF HEALTH & HUMAN SERVICES Home Visiting Data Collection and Management - Nebraska 2015-2016	93.505	18911	33,925
Home Visiting Data Collection and Management - Nebraska 2015-2016	93.505	Agreement	<u>78,748</u>
TOTAL MATERNAL, INFANT, AND EARLY CHILDHOOD HOME VISITING CLUSTER			355,841
<u>DEPARTMENT OF AGRICULTURE</u>			
<u>Pass through KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>			
Kansas Quality Rating System Development	10.596	Agreement	194,510
<u>Pass through KANSAS DEPARTMENT OF EDUCATION</u>			
Master Agreement-Summer Food Program - Upward Bound Math & Science	10.559	Agreement	6,741
Master Agreement-Summer Food Service Program - Upward Bound	10.559	Agreement	5,644
<u>Pass through KANSAS WATER OFFICE</u>			
Limited Irrigation Crop Insurance/Water Conservation Area Calculator for Kansas	10.460	17-104	13,367
<u>Pass through UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>			
Kansas/Missouri Nutrition Incentive Collaboration	10.331	Z9G00020	5,671
<u>DEPARTMENT OF COMMERCE</u>			
<u>Direct Award</u>			
KU University Center Project: KU Entrepreneurship Works for Kansas - Phase III	11.303	05-66-05445-04	111,118
<u>DEPARTMENT OF DEFENSE</u>			
<u>Direct Award</u>			
STARTALK 2012: C2-Chinese Connect	12.900	H98230-12-1-0127	(929)
STARTALK 2013: C2-Chinese Connect	12.900	H98230-13-1-0138	(3,817)
GenCyber Summer Camp at the University of Kansas	12.903	H98230-17-1-0281	91,311
Peace Corps Recruitment Proposal for FY 2016 - 2018	12.000	PC-15-8-030	22,510
<u>Pass through DEPARTMENT OF DEFENSE</u>			
University of Kansas IC Center for Academic Excellence (KU-ICCAE)	12.598	H1M402-17-1-0003	124,446
<u>Pass through INSTITUTE FOR INTERNATIONAL EDUCATION</u>			
KU Project GO Center: Attaining Intercultural Understanding through Critical Language Learning for 21st Century Officers	12.357	2603-KU-10-GO-51-PO5	196,369
KU Project GO Center: Attaining Intercultural Understanding through Critical Language Learning for 21st Century Officers	12.357	2603-KU-10-GO-51-PO7	259,006
Building Language Capacity and Cultural Competency to Meet National Security Needs: The University of Kansas Language Training Center	12.579	2603-KU-10-LTC052P06	211,857
Building Language Capacity and Cultural Competency to Meet National Security Needs: The University of Kansas Language Training Center	12.579	2603-KU-10-LTC052P08	385,640
<u>DEPARTMENT OF INTERIOR</u>			
<u>Pass through NATIONAL FISH & WILDLIFE FOUND</u>			
Building Capacity for Milkweed/Monarch Habitat Restoration in Eastern Oklahoma	15.608	2007.15.050502	25,599

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>DEPARTMENT OF JUSTICE</u>			
<u>Direct Award</u>			
Postconviction Testing of DNA Evidence to Exonerate the Innocent University of Kansas School of Law Multi-State Partnership for Innocence	16.820	2015-DY-BX-K004	\$ 1,826
<u>Pass through LEAVENWORTH PENITENTIARY</u>			
Paul E. Wilson Defender Project	16.000	DJBPO408SF530001	15,263
Paul E Wilson Defender Project	16.000	15b40818ptf530001	33,476
<u>Pass through OFFICE OF KANSAS GOVERNOR</u>			
Campus Access & Resource Expert (CARE) Facilitator	16.575	15-VOCA-12	(4,477)
<u>DEPARTMENT OF STATE</u>			
<u>Direct Award</u>			
FY 2016 Study of the U.S. Institute for Student Leaders on Women's Leadership	19.009	S-ECAGD-16-CA-1075	153,336
Study of the U. S. Institutes for Student Leaders on Women's Leadership	19.009	S-ECAGD-18-CA-1040	197,737
<u>Pass through ARGENTINE FULBRIGHT COMMISSION</u>			
2018 Friends of Fulbright Undergraduate Student Exchange Program	19.400	Agreement	111,446
<u>Pass through INSTITUTE FOR INTERNATIONAL EDUCATION</u>			
6-Week English for Graduate Studies Program for Fulbright Foreign Students (2017)	19.400	IIE0136 KU 3.15.2017	143,460
8-Week Hubert H Humphrey Fellowship Pre-Academic Training Program	19.000	S-ECAGD-17-CA-1020	13,958
'Real New s' in the U.S. and Russia: Peer-to-Peer strategies for fact-checking and verification	19.900	SRS50017CA0071	39,824
<u>Department of Transportation</u>			
<u>Pass through KANSAS DEPARTMENT OF TRANSPORTATION</u>			
Statewide Traffic Incident Management Program (TIM Program)	20.215	KA-4450-01-2-17	33,764
Technical Services for the Kansas Rural Transit Assistance Program	20.509	PT-0511-37	63,206
Transportation Safety Conferences 2013-2022	20.600	SA-0943-17	195,886
Biased-Based Policing Grant	20.611	RP-1911-17	39,341
<u>Pass through KANSAS DIVISION OF EMERGENCY MANAGMENT</u>			
Trainings to Kansas Counties through Kansas University Fire and Rescue Training Institute during the federal fiscal year 2016-2017	20.703	19572-M1	14,856
<u>Pass through KANSAS STATE UNIVERSITY</u>			
Traffic Assistance Services for Kansas (TASK) Program	20.215	S18120	3,480
<u>Pass through KANSAS STATE UNIVERSITY SPA</u>			
Traffic Assistance Services for Kansas (TASK) Program	20.215	S17054	21,870
<u>DEPARTMENT OF TREASURY</u>			
<u>Direct Award</u>			
VITA grant project	21.009	17VITA0282	18,595
<u>OFFICE OF PERSONNEL MANAGEMENT</u>			
<u>Direct Award</u>			
Intergovernmental Personnel Act (IPA) Agreement for Joseph Evans	27.011	IPA #0231	277,322
<u>INSTITUTE OF MUSEUM AND LIBRARY SERVICES</u>			
<u>Direct Award</u>			
Improvising Inclusive Communities w ith the Adaptive Use Musical Instrument	45.024	17-5400-7089	16,344
Big Botany: Conversations w ith the Plant World	45.024	17-4400-7045	17,406
Presenting and Multidisciplinary Works: To Support performances and programs Exploring Identities through music, movement, and w ord.	45.024	17-5400-7178	30,000
Big Botany: Conversations w ith the Plant World	45.024	Agreement	23,318
Next Generation Careers for KU Humanities PhDs	45.130	ZA-250648-16	7,777
Advancing Research Collaboration in the Humanities	45.130	CH-50951	425,000
Humanities Challenge Project II	45.130	CH-20811	500,000
Improving the Physical Environment in Spencer Research Library	45.149	PF-255826-17	16,080
Global Medical Humanities: Bridging Digital Health Divides	45.162	AK-255364-17	14,681
Native American and African American Educational Experiences in Kansas, 1830-1960	45.163	BH-250945-16	25,216
Ethical Boundaries of Community in Russian Literature and Beyond	45.163	AQ-248198	2,037
Teaching the "Long Hot Summer" of 1967 and Beyond	45.163	ES-250805-16	109,804
Black Book Interactive Project	45.169	HD-248607-16	4,028
Lasting Impressions: Updating Works on Paper Collection Storage at the Spencer Museum of Art	45.301	MA-30-15-0383-15	394
Civic Leader and Art Collector: Sallie Casey Thayer and an Art Museum for the University of Kansas	45.301	MA-10-16-0287-16	94,609
Big Botany: conversations w ith the Plant World	45.301	MA-10-17-0006-17	164,200

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>INSTITUTE OF MUSEUM AND LIBRARY SERVICES (Continued)</u>			
<u>Pass through HUMANITIES KANSAS</u>			
Exhibiting African American Story Quilts at the Spencer Museum of Art	45.129	217007MJ	\$ 10,000
Black Love: A Symposium	45.129	217024MJ	7,500
<u>Pass through KANSAS DEPARTMENT OF COMMERCE & HOUSING</u>			
Lied Center School Performance Series	45.025	Agreement	5,000
Art For, By and About People with Disabilities	45.025	FY16-028	10,000
<u>Pass through NORTH CAROLINA STATE UNIVERSITY</u>			
Designing OERs To Prepare the Next Generation of Scholarly Communication Librarians	45.312	Agreement	2,448
<u>NATIONAL SCIENCE FOUNDATION</u>			
<u>Direct Award</u>			
IPA Agreement for Jun (Luke) Huan appointment at NSF	47.000	IIS-1624071-001	119,030
FEW Workshop Proposal: Defining the Opportunities and Challenges for Research and Design Strategies to support Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS)	47.041	CBET-1559379	7,381
Collaborative research: Prairie Analysis Seminar 2015-2017	47.049	DMS-1519016	3,676
The XI Americas Conference on Differential Equations and Nonlinear Analysis	47.049	DMS-1658005	16,508
2017 Graduate Student Combinatorics Conference	47.049	DMS-1700464	4,635
"The Midwest Numerical Analysis Day" Conference	47.049	DMS-1747624	2,998
KUMUNU 2017 Conference	47.049	DMS-1745772	10,426
4th Annual KUMUNU Conference in PDE, Dynamical Systems and Applications	47.049	DMS-1753332	13,348
REU Site: A Summer Experience for Undergraduates Integrating Research, Education, and Career	47.049	CHE-1560279	87,833
CANSec: The Central Area Networking and Security Workshop	47.070	CNS-1602041	2,600
NSF Student and Postdoc Travel Grant for the 2017 International Meshing Roundtable (2017 IMR)	47.070	CCF-1746066	7,178
REU Site: Models in Evolution, Ecology and Systematics	47.074	DBI-1262795	8,333
Kansas City Research Data Center	47.075	SES-1359527	29,456
An Interdisciplinary Scholarship Program for Undergraduates in Renewable Energy	47.076	DUE-1060660	1,064
Graduate Research Fellowship Program	47.076	DGE-1451148	(34,000)
Graduate Research Fellowship Program	47.076	DGE-1540502	419,667
<u>Pass through AMERICAN PHYSICAL SOCIETY</u>			
APS Conference for Undergraduate Women in Physics II	47.049	CWC-021	35,735
<u>Pass through UNIVERSITY OF HOUSTON</u>			
A Proposal to Support Graduate Student Attendance at the University of Houston EITM Summer Training Institute	47.075	R-15-0015	878
<u>SMALL BUSINESS ADMINISTRATION</u>			
<u>Pass through FORT HAYS STATE UNIVERSITY</u>			
University of Kansas Small Business Development Center	59.037	1713	41,843
University of Kansas Small Business Development Center	59.037	Agreement	22,850
State Funds:University of Kansas Small Business Center	59.037	1813	63,495
<u>VETERANS ADMINISTRATION</u>			
<u>Direct Award</u>			
VA Educational Therapy Program	64.000	VA255-15-C-0021	48,936
<u>ENVIRONMENTAL PROTECTION AGENCY</u>			
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT</u>			
2018-19 National Rivers and Streams Assessment (NRSA)	66.419	2018-NRSA1	9,214
<u>DEPARTMENT OF EDUCATION</u>			
<u>Direct Award</u>			
National Resource Centers Program	84.015	P015A140178 - 17	262,548
Foreign Language and Area Studies Fellowships Program	84.015	P015B140073-17	240,098
Foreign Language and Area Studies Fellowships Program	84.015	P015B150178 - 17	248,741
Heartland College Assistance Migrant Program	84.149	S149A150007-17	401,080
Post-Doctoral Research Training Program in Special Education: Response to Intervention (RTI) in Early Childhood	84.324	R32B120004 - 15	38,174
Augmentative and Alternative Communication in the Schools: Leadership and Access (ACTS) - Kansas City	84.325	H325K110338 - 15	172,132
Kansas High-Incidence Preparation Project (KIP)	84.325	H325T080040-12	(2,669)
University of Kansas Global Learning Opportunities Building Early Education Leaders (KU-GLOBEEL) Type A	84.325	H325D120065 - 16	228,731

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
<u>DEPARTMENT OF EDUCATION (Continued)</u>			
Culturally-Responsive Early Literacy Intervention (CRELI): American Indian/Alaskan Native KU-DDL: The University of Kansas Diversity, Development & Learning Early Childhood Unified Masters	84.325	H325K130316 - 15	\$ 231,247
Leadership Training in Nondiscriminatory Special Education Policy and Practice	84.325	H325K130073	175,634
University of Kansas Project to Develop Responsive, Innovative, and Visionary Educators (KU-DRIVE), Type A	84.325	H325D150085-17	202,047
ALL-Together In Early Education (ALL-TIEE): Early Childhood Unified Masters Project	84.325	H325D150084-16	223,918
Center on Online Learning and Students with Disabilities	84.327	H325K160075	192,369
University of Kansas Washington Cluster GEAR UP Program	84.334	H327U110011 - 15	6,595
University of Kansas Harmon Cluster GEAR UP Program	84.334	P334A110181-16	528,499
University of Kansas Highland Park High School Cluster GEAR UP Program	84.334	P334A110182	612,630
The University of Kansas KCKPS Gear Up Program	84.334	P334A140114-17	288,747
Supporting Technology, Educators, and Parents for Upward Progress (STEP-UP)	84.365	P334A170025	766,999
		T365Z170233	243,134
<u>Pass through EMPIRICAL EDUCATION INC.</u>			
Instruments for the Making Sense of SCIENCE research study	84.411	19720	132,002
<u>Pass through GEORGIA STATE UNIVERSITY</u>			
MAAPS: Monitoring Advising Analytics as Predictors of Success: A Study Proposed by the University Innovation Alliance	84.116	SP00012139-05	179,947
<u>Pass through KANSAS DEPARTMENT OF EDUCATION</u>			
KSDE 21st CCLC Technical Assistance Grant	84.287	652-16-1895	240,587
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT</u>			
Kansas Inservice Training System (KITS)-Infant and Toddler Expansion	84.181	Agreement	478,382
Tiny K - Infant Toddler Assistive Technology Services	84.181	Agreement	32,478
<u>Pass through MISSOURI DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION</u>			
Missouri Post-Secondary Success Project	84.027	Agreement	241,169
<u>Pass through NEW HAMPSHIRE DEPARTMENT OF EDUCATION</u>			
DLM - Operational/Testing	84.000	2015-043	61,851
<u>Pass through SYNERGY ENTERPRISES, INC.</u>			
You for Youth, Summer Learning Initiative, SME Targeted Technical Assistance	84.000	Agreement	526
<u>Pass through UNIVERSITY OF KANSAS</u>			
Provide Professional Development and Associated Resources for the Strategic Instruction Model and Content Literacy Continuum	84.323	Agreement	377,711
<u>Pass through UNIVERSITY OF NORTH CAROLINA CHARLOTTE</u>			
National Technical Assistance Center on Increasing Graduation and Improving Transition to Postsecondary Education and Careers for Students with Disabilities	84.326	20150079-03-UKS	243,006
<u>Pass through UNIVERSITY OF OREGON</u>			
OSEP Technical Assistance Center on Positive Behavioral Interventions and Supports	84.326	224440M	45,938
<u>Pass through USD 491 - Eudora</u>			
Harvest of Hope Leadership Academy 2015-2016	84.000	Agreement	2,971
<u>Pass through USD 501, TOPEKA PUBLIC SCHOOLS</u>			
The Arts Infusion Project	84.351	16855	44,682
The Arts Infusion Project: Evaluation	84.351	19265	30,112
The Arts Infusion Project: Professional Development	84.351	19263	58,224
The Arts Infusion Project: Evaluation	84.351	20123	83,857
The Arts Infusion Project: Professional Development	84.351	20122	57,153
<u>Pass through VERMONT AGENCY OF EDUCATION</u>			
VT Inclusive Education Professional Learning	84.000	35355	33,898
<u>Pass through WICHITA STATE UNIVERSITY</u>			
Evaluation of the Wichita North GEAR UP Program	84.334	13432	14,585
GEAR UP, South Wichita Project	84.334	13433	16,518
GEAR UP, South Wichita Project	84.334	15609	24,560
Evaluation of the Wichita North GEAR UP Program	84.334	15605	24,308
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>			
<u>Direct Award</u>			
Kansas Serves Native American Families - KSNAF	93.087	90CU0079-02-00	78,811
The Heartland Sexual Assault Policies & Prevention on Campuses Project	93.088	6 ASTWH160042-02-01	258,816
Training Researchers in Language Impairments	93.173	5T32DC000052-21	95,509
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	1 NU27DD000006-01-02	228,556
Campus Suicide Prevention at the University of Kansas	93.243	6U79SM062485-03M001	106,727

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Amount</u>
DEPARTMENT OF HEALTH AND HUMAN SERVICES (Continued)			
Kansas State Plan for Assistive Technology	93.464	1601KSSGAT	\$ 210,715
Kansas State Plan for Assistive Technology	93.464	1701KSSGAT	223,299
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	90DD0700-05-00	67,146
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	90DDUC0033-02-00	362,517
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	90DD0599	(1,869)
KAPP: Kansas Adoption Permanency Project	93.652	90CO1120-05-02	322,230
Health for All: Healthy Places that Promote Health Equity among Latinos in Kansas City, KS	93.738	6 NU58DF005806-03-02	530,004
MERS IMSD Program at the University of Kansas	93.859	5R25GM062232-17	293,543
Pharmaceutical Aspects of Biotechnology Training	93.859	5T32TGM008359-28	374,904
The genetic and developmental basis of repeated phenotypic shifts in Penstemon	93.859	5F32GM110988-02	(4,063)
Training Grant in Dynamic Aspects of Chemical Biology	93.859	5T32GM008545-25	336,011
500 Nations Bridge Collaboration: Haskell Indian Nations University / U of Kansas	93.859	5R25GM060182-15	215,707
Biological Indicators of Trauma in Foster Youth: The Role of Social Support	93.865	F31HD088020-02	38,823
<u>Pass through KANSAS DEPARTMENT FOR AGING AND DISABILITY SERVICE</u>			
CABH-States	93.243	Agreement	169,443
CABH-States	93.243	Agreement	93,470
<u>Pass through KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>			
DCF Sustainability Funding FY2018	93.575	Agreement	55,747
<u>Pass through KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>			
Kansas ECCS Impact Grant	93.110	Agreement	409,605
LYFTE: Lifting Young Families Toward Excellence	93.500	Agreement	414,656
Equipment Exchange: Increasing Access to Durable Medical Equipment	93.778	KDHE2014-11	44,548
Equipment Exchange: Increasing Access to Durable Medical Equipment	93.778	KDHE2014-011	231,105
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	KDHE2014-10	14,801
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	KDHE2014-010	52,279
Kansas Maternal Infant and Early Childhood Home Visiting - DAISEY	93.870	Agreement	20,982
Healthy Start Data Collection and Project Evaluation Services	93.926	PO64410	27,046
<u>Pass through KICKAPOO TRIBE</u>			
Kickapoo Project LAUNCH	93.243	16676	(1,119)
Cooperative Agreements for Tribal Behavior Health (Native Connections)	93.243	16947	4,771
Kickapoo Project LAUNCH	93.243	18183	205,142
Cooperative Agreements for Tribal Behavior Health (Native Connections)	93.243	18178	14,583
Kickapoo Tribe in Kansas SAMHSA Circle of Care Program Evaluation	93.243	19940	(189)
Cooperative Agreements for Tribal Behavior Health (Native Connections)	93.243	Agreement	36,561
Kickapoo Tribe in Kansas Tribal CBCAP	93.590	19343	33,624
PPHF 2014: A Comprehensive Approach to Good Health and Wellness in Indian Country	93.762	17982	56,306
<u>Pass through NOVATO BLUE RIBBON COALITION FOR YOUTH</u>			
Novato Blue Ribbon Coalition for Youth Coalition Evaluation Plan	93.276	Agreement	(567)
<u>Pass through OREGON DEPARTMENT OF HUMAN SERVICES</u>			
Oregon ROM Reports System	93.658	133972-8	42,551
<u>Pass through UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>			
Kansas University Affiliated Program	93.110	QR814062	1,396
Promoting Primary Care Advanced Practice Nursing in Rural Kansas	93.247	Z1T00000	19,279
Frontiers Art + Medicine Trailblazer	93.350	ZPB00006-Spencer	3,500
K-INBRE Star Trainees yr 5	93.859	PO 1000931502	219
K-INBRE Summer Scholars yr 5	93.859	Agreement	5,265
<u>Pass through UNIVERSITY OF MISSOURI - KANSAS CITY</u>			
KC HealthTracks	93.137	0078486/00060127	29,393
<u>Pass through WISCONSIN DEPARTMENT OF CHILDREN & FAMILIES</u>			
Wisconsin DAISEY - Family Foundations Home Visiting Shared Measurement System	93.870	437003-I18-0001135-000-01	80,963
DEPARTMENT OF HOMELAND SECURITY			
<u>Direct Award</u>			
Kansas State Training Systems Grant Application FY 2016	97.043	EMV-2016-GR-00013	3,468
Kansas State Training Systems Grant Application FY 2017	97.043	EMV-2017-GR-00048	19,995
Assistance to Firefighters Grants (AFG)	97.044	EMV-2015-FZ-00103	325,811
Assistance to Firefighters Grants (AFG) FY'16	97.044	EMV-2016-FZ-00166	179,308
<u>Pass through KANSAS DEPARTMENT OF AGRICULTURE</u>			
Kansas Base Flood Elevation Portal and Mapping Application	97.000	19013	28,068
TOTAL EXPENDITURES OF FEDERAL AWARDS			\$ 107,911,487

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

Of the federal expenditures presented in this schedule, the Center provided federal awards to subrecipients as follows:

Program	CFDA Number	Amount Provided
Research & Development Cluster	Multiple	\$ 13,145,310
University of Kansas IC Center for Academic Excellence (KU-ICCAE)	12.598	6,640
Building Capacity for Milkweed/Monarch Habitat Restoration In Eastern Oklahoma	15.608	15,000
VT Inclusive Education Professional Learning	84.000	571
Heartland College Assistance Migrant Program	84.149	176,750
Tiny K – Infant Toddler Assistive Technology Services	84.181	19,180
The Heartland Sexual Assault Policies & Preventative on Campuses Project	93.088	56,143
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	24,721
Kansas State Plan for Assistive Technology	93.464	155,220
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	42,560
KAPP: Kansas Adoption Permanency Project among Latinos	93.652	131,433
Health for All: Healthy Places that Promote Health Equity in Kansas City, KS	93.738	114,518
Equipment Exchange: Increasing Access to Durable Medical Equipment	93.778	147,870
Assisting Medicaid Beneficiaries in Accessing Assistive Technology	93.779	67,084
500 Nations Bridge Collaboration: Haskell Indian Nations University /University of Kansas	93.859	<u>41,076</u>
		<u>\$ 14,144,076</u>

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

NOTE 1 - ORGANIZATION

The University of Kansas Center for Research, Inc. (the Center) is the recipient of several federal grants. The accompanying schedule of expenditures of federal awards presents the activity of all federal awards programs of the Center for the year ended June 30, 2018. All federal awards received directly from federal agencies, as well as federal awards passed through other government agencies, are included on the schedule.

NOTE 2 - BASIS OF PRESENTATION

Expenditures reported on the Schedule are reported on the cash basis of accounting. Such expenditures are recognized following, as applicable, either the cost principles in OMB Circular A-122, Cost Principles for Non-Profit Organizations or the cost principles contained in Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. The Center has elected not to use the 10-percent de minimis indirect cost rate as allowed under the Uniform Guidance.

NOTE 3 - COST SHARE

Local cost sharing, as defined by the Uniform Guidance is required by certain federal grants. The amount of cost sharing varies with each program. Only the federal share of expenditures is presented in the Schedule of Expenditures of Federal Awards.

NOTE 4 - ADDITIONAL AUDITS

Grantor agencies reserve the right to conduct additional audits of the Center's grant programs for economy and efficiency and program results which may result in disallowed costs to the Center. However, management does not believe such audits would result in any disallowed costs that would be material to the Center's financial position at June 30, 2018. During the year ended June 30, 2018, the Center returned \$7,124,684 of funding related to self-reported disallowed costs.

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND CFDA

<u>Department</u>	<u>CFDA Number</u>	<u>Amount</u>
U.S. Department of Agriculture	10.000	\$ 42,458
	10.001	21,831
	10.310	173,453
	10.331	5,671
	10.460	13,367
	10.559	12,385
	10.596	453,825
	10.676	10,036
	10.699	3,977
	10.903	<u>24,892</u>
		761,895

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND CFDA (Continued)

Department	CFDA Number	Amount
U.S. Department of Commerce	11.303	\$ 111,118
	11.431	23,352
	11.467	3,507
	11.619	<u>24,121</u>
		162,098
U.S. Department of Defense	12.000	2,268,468
	12.300	663,042
	12.357	455,375
	12.420	323,513
	12.431	888,910
	12.579	597,497
	12.598	124,446
	12.630	77,818
	12.800	365,078
	12.900	(4,746)
	12.901	11,927
	12.903	91,311
	12.910	<u>141,481</u>
	6,004,120	
Department of Housing and Urban Development	14.000	18,397
U.S. Department of Interior	15.000	37,536
	15.159	49,609
	15.224	1,397
	15.506	12,431
	15.608	25,599
	15.611	140,242
	15.658	(582)
	15.805	20,775
	15.808	15,175
	15.810	138,555
	15.814	85,444
	15.819	11,711
	15.980	<u>41,502</u>
	579,394	
U.S. Department of Justice	16.000	48,739
	16.575	(4,477)
	16.734	19,696
	16.745	15,790
	16.820	<u>1,826</u>
	81,574	
U.S. Department of Labor	17.261	18,154
U.S. Department of State	19.000	13,958
	19.009	351,073
	19.400	254,906
	19.900	<u>39,824</u>
	659,761	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

NOTE 5 – SUBTOTALS BY FEDERAL AGENCY AND CFDA (Continued)

Department	CFDA Number	Amount
U.S. Department of Transportation	20.000	\$ 172,615
	20.108	89,933
	20.200	60,222
	20.205	109,545
	20.215	378,441
	20.509	63,206
	20.600	195,886
	20.611	39,341
	20.701	359,932
	20.703	<u>14,856</u>
		1,483,977
U.S. Department of the Treasury	21.009	18,595
U.S. Department of Agriculture	32.000	131,107
Library of Congress	42.000	12,106
National Aeronautics and Space Administration	27.011	277,322
	43.000	158,798
	43.001	1,991,002
	43.002	232,955
	43.008	<u>176,145</u>
		2,836,222
National Endowment for the Arts	45.024	87,068
	45.025	15,000
	45.129	17,500
	45.130	932,777
	45.139	16,080
	45.160	(165)
	45.162	14,681
	45.163	137,057
	45.164	16,997
	45.169	4,028
	45.301	259,203
	45.312	<u>2,448</u>
National Science Foundation	47.000	150,871
	47.041	1,739,164
	47.049	4,013,306
	47.050	1,768,428
	47.070	1,195,279
	47.074	5,455,785
	47.075	694,732
	47.076	1,377,707
	47.078	168,003
	47.079	1,642,805
	47.080	758
	47.083	<u>870,815</u>
Small Business Administration	59.037	128,188

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

NOTE 5 – SUBTOTALS BY FEDERAL AGENCY AND CFDA (Continued)

Department	CFDA Number	Amount
Veterans Administration	64.000	\$ 48,936
Environmental Protection Agency	66.419	9,214
	66.461	<u>26,598</u>
		35,812
U.S. Department of Energy	81.000	843,562
	81.049	1,113,787
	81.089	950,207
	81.135	<u>56,387</u>
		2,963,943
U.S. Department of Education	84.000	99,246
	84.015	751,387
	84.027	797,280
	84.042	552,305
	84.044	391,190
	84.047	1,088,791
	84.066	509,647
	84.116	5,179,947
	84.149	401,080
	84.181	510,860
	84.217	243,898
	84.287	240,587
	84.305	457,309
	84.323	449,297
	84.324	2,938,924
	84.325	2,201,673
	84.326	2,869,867
	84.327	793,768
	84.334	2,276,846
	84.351	274,028
	84.365	243,134
	84.366	48,046
	84.367	1,953
	84.368	2,519,888
	84.407	407,407
	84.411	177,040
	84.418	<u>50,904</u>
		26,476,302
U.S. Department of Health and Human Services	93.000	2,424,421
	93.087	764,088
	93.088	258,816
	93.103	83,253
	93.110	732,010
	93.121	447,135
	93.136	360,443
	93.137	29,393
	93.173	1,550,584
	93.184	228,556
	93.242	1,050,886
	93.243	1,171,801
	93.247	19,279
	93.276	(567)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2018

NOTE 5 – SUBTOTALS BY FEDERAL AGENCY AND CFDA (Continued)

Department	CFDA Number	Amount
U.S. Department of Health and Human Services (Continued)	93.279	\$ 1,052,146
	93.286	1,860,756
	93.310	1,018,381
	93.350	203,329
	93.351	802,316
	93.361	13,672
	93.393	349,790
	93.394	623,594
	93.395	1,814,377
	93.396	(436)
	93.397	191,321
	93.398	10,881
	93.424	3,126
	93.433	1,681,213
	93.464	434,014
	93.500	414,656
	93.505	775,378
	93.558	403,952
	93.575	65,676
	93.590	195,109
	93.600	113,829
	93.631	62,379
	93.632	427,794
	93.652	322,230
	93.658	42,551
	93.670	317,629
	93.732	71,526
	93.738	530,004
	93.757	32,300
	93.762	56,306
	93.778	275,700
	93.779	67,080
	93.837	199,899
93.846	13,609	
93.847	687,906	
93.853	1,147,969	
93.855	3,518,872	
93.859	10,599,909	
93.865	2,399,990	
93.866	1,714,883	
93.867	42,967	
93.870	404,108	
93.910	83,944	
93.926	154,365	
93.994	<u>41,831</u>	
	44,353,929	
U.S. Department of Homeland Security	97.000	28,068
	97.043	23,463
	97.044	<u>505,119</u>
	<u>556,650</u>	
TOTAL		<u>\$ 107,911,487</u>

INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND
ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS
PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

To the Board of Trustees
University of Kansas Center for Research, Inc.
Lawrence, Kansas

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the University of Kansas Center for Research, Inc. (the Center), a component unit of the University of Kansas, which comprise the statement of financial position as of June 30, 2018, and the related statements of activities, and cash flows for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated October 8, 2018.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Center's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Center's internal control. Accordingly, we do not express an opinion on the effectiveness of the Center's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. We did identify certain deficiencies in internal control, described in the accompanying schedule of findings and questioned costs that we consider to be a significant deficiency as item 2018-002.

(Continued)

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Center's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed an instance of noncompliance or other matters that is required to be reported under Government Auditing Standards and which is described in the accompanying schedule of findings and questioned costs as item 2018-001.

The Center's Response to Findings

The Center's response to the findings identified in our audit are described in the accompanying schedule of findings and questioned costs. The Center's responses were not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on them.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Center's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Center's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Crowe LLP

Crowe LLP

Indianapolis, Indiana
October 8, 2018

INDEPENDENT AUDITOR'S REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM;
REPORT ON INTERNAL CONTROL OVER COMPLIANCE

To the Board of Trustees
University of Kansas Center for Research, Inc.
Lawrence, Kansas

Report on Compliance for Each Major Federal Program

We have audited the University of Kansas Center for Research, Inc.'s (the Center), a component unit of the University of Kansas, compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of Center's major federal programs for the year ended June 30, 2018. The Center's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with the requirements of laws, regulations, contracts, and grants applicable to its federal programs.

Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of the Center's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the Center's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the Center's compliance.

Opinion on Each Major Federal Program

In our opinion, the Center complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2018.

(Continued)

Report on Internal Control Over Compliance

Management of the Center is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the Center's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the Center's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.



Crowe LLP

Indianapolis, Indiana
October 8, 2018

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
For the year ended June 30, 2018

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

Material weakness(es) identified? Yes No

Significant deficiencies identified not considered to be material weaknesses? Yes None Reported

Noncompliance material to financial statements noted? Yes No

Federal Awards

Internal Control over major programs:

Material weakness(es) identified? Yes No

Significant deficiencies identified not considered to be material weaknesses? Yes None Reported

Type of auditor's report issued on compliance for major programs: Unmodified

Any audit findings disclosed that are required to be reported in accordance with 2CFR 200.516(a)? Yes No

Identification of major programs:

<u>CFDA Number(s)</u>	<u>Name of Federal Program or Cluster</u>
Various	Research and Development Cluster

Dollar threshold used to distinguish between Type A and Type B programs: \$3,000,000

Auditee qualified as low-risk auditee? Yes No

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
For the year ended June 30, 2018

SECTION 2 - FINDINGS RELATED TO THE FINANCIAL STATEMENTS THAT ARE REQUIRED TO BE REPORTED IN ACCORDANCE WITH GAGAS.

Finding 2018-001 – Return of Funds

Criteria:	The confirmation of salaries must be performed by a person with first-hand knowledge of the effort; the principal investigator or responsible official(s) using suitable means of verification that the work was performed.
Condition:	During the year ended June 30, 2018, the Center returned \$7,124,684 of funding related to self-reported disallowed costs identified from prior years.
Context:	Controls over time and effort practices in prior years were not adequate to meet applicable standards.
Effect:	The Center returned \$7,124,684 of funding related to self-reported disallowed costs.
Cause:	The above condition appears to be the result of a lack of controls surrounding the certification of time and effort related to cost-share claimed for certain projects in prior years.
Recommendation:	We recommend that management continue to implement the corrective action plan steps below.
Management's Response:	Management agrees with the finding. An internal review found that a certain number of faculty and staff in one particular school did not have an accurate understanding of what was required in order to charge time and effort to certain contracts, which would trigger a financial contribution "match" from the sponsor. As a result, a significant amount of "match" time and effort was certified that did not meet the applicable standards. However, the work for the contracts in question appears to have been completed; no failure to perform the required activities was identified. KU has implemented a multi-tiered corrective action plan coordinated by the KU Office of Integrity and Compliance and the KU Office of Research. See Corrective Action Plan.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
For the year ended June 30, 2018

Finding 2018-002 – Revenue Recognition

Criteria:	Revenue should be recognized based upon the terms of the related contract or grant agreement.
Condition:	During testing of revenue recognition, one contract was noted to be fully recognized as revenue during the current year, but the terms of the contract did not support this treatment.
Context:	One contract of sixty-nine sampled was noted to be misclassified for revenue recognition purposes.
Effect:	An adjustment was made to reduce revenue and increase deferred revenue by approximately \$806,000.
Cause:	The above condition appears to be the result of a lack of controls surrounding the classification of contracts for revenue recognition.
Recommendation:	<p>We recommend the establishment of a formal, documented process for the review of revenue recognition categorization of contracts against documented criteria for use in the determination of revenue recognition categories. We also recommend that this criteria contemplate content in ASC Topic 606 and ASU 2018-08, which are effective for the fiscal year ending June 30, 2019.</p> <p>Additionally, we recommend the regular (monthly) review of the reconciliation of accounts receivable and deferred revenue related to the recognition of revenue.</p>
Management's Response:	Management agrees with the finding. The above condition was a result of the major financial system implementation during fiscal year ending June 30, 2018. See Corrective Action Plan.

SECTION 3 - FINDINGS AND QUESTIONED COSTS FOR FEDERAL AWARDS INCLUDING AUDIT FINDINGS AS DEFINED IN OMB CIRCULAR A-133 SECTION 510(a).

None