

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

FINANCIAL STATEMENTS
June 30, 2022 and 2021

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

FINANCIAL STATEMENTS
June 30, 2022 and 2021

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INDEPENDENT AUDITOR'S REPORT

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

Report on the Audit of the Financial Statements***Opinion***

We have audited the financial statements of the University of Kansas Center for Research, Inc., a component unit of the University of Kansas, which comprise the statements of financial position as of June 30, 2022 and 2021, and the related statements of activities, and cash flows for the years then ended, and the related notes to the financial statements.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of University of Kansas Center for Research, Inc. (the Center) as of June 30, 2022 and 2021, 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.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Center and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for 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.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Center's ability to continue as a going concern for one year from the date the financial statements are available to be issued.

(Continued)

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit 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 University of Kansas Center for Research, Inc.'s internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Center's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Supplementary Information

Our audits were 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 purposes of additional analysis and is not a required part of the financial statements. Such 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 information is fairly stated, in all material respects, in relation to the financial statements as a whole.

(Continued)

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated October 4, 2022 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 solely 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 the effectiveness of the Center's 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 Center's internal control over financial reporting and compliance.



Crowe LLP

Indianapolis, Indiana
September 30, 2022

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENTS OF FINANCIAL POSITION
June 30, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Assets		
Current assets		
Cash and cash equivalents	\$ 27,914,487	\$ 37,198,498
Current investments	82,420,084	87,206,385
Accounts receivable, net	26,091,733	23,146,279
Note receivable, net – current	105,003	100,723
Prepaid expenses	<u>149,962</u>	<u>85,576</u>
Total current assets	136,681,269	147,737,461
Non-current assets		
Property and equipment, net	16,301,887	16,005,354
Buildings and equipment in progress	<u>807,739</u>	<u>556,108</u>
Total property and equipment, net	17,109,626	16,561,462
Right of use asset	5,605,198	5,812,824
Long-term investments	8,931,862	8,818,525
Notes receivable, net	<u>450,072</u>	<u>503,667</u>
Total non-current assets	<u>32,096,758</u>	<u>31,696,478</u>
Total assets	<u>\$ 168,778,027</u>	<u>\$ 179,433,939</u>
Liabilities and net assets		
Current liabilities		
Accounts payable and accrued expenses	\$ 14,450,278	\$ 13,241,957
Bonds payable, net – current	943,917	913,917
Notes payable – current	4,044,692	4,079,888
Lease liabilities, current portion	675,953	590,615
Assets held for others	8,032,365	9,870,785
Deferred revenues – sponsored research	<u>8,056,735</u>	<u>8,204,509</u>
Total current liabilities	36,203,940	36,901,671
Non-current liabilities:		
Bonds payable, net	5,008,467	6,737,474
Notes payable, net	2,819,358	5,933,926
Lease liabilities	<u>5,153,431</u>	<u>5,434,989</u>
Total non-current liabilities	<u>12,981,256</u>	<u>18,106,389</u>
Total liabilities	<u>49,185,196</u>	<u>55,008,060</u>
Net assets		
Without donor restrictions	110,742,688	115,609,073
With donor restrictions	<u>8,850,143</u>	<u>8,816,806</u>
Total net assets	<u>119,592,831</u>	<u>124,425,879</u>
Total liabilities and net assets	<u>\$ 168,778,027</u>	<u>\$ 179,433,939</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENT OF ACTIVITIES
Year ended June 30, 2022

	Without Donor <u>Restrictions</u>	With Donor <u>Restrictions</u>	<u>Total</u>
Revenues, gains, and other support			
Direct research income	\$ 124,022,215	\$ -	\$ 124,022,215
Facilities & administrative (F&A) revenue	<u>27,393,176</u>	<u>-</u>	<u>27,393,176</u>
	<u>151,415,391</u>	<u>-</u>	<u>151,415,391</u>
Service centers	13,702,309	-	13,702,309
Royalties	977,907	-	977,907
Investment returns (loss), net	(11,220,186)	322,945	(10,897,241)
Other income	2,021,921	-	2,021,921
Net assets released from restriction	<u>289,608</u>	<u>(289,608)</u>	<u>-</u>
	<u>5,771,559</u>	<u>33,337</u>	<u>5,804,896</u>
Total revenues, gains, and other support	<u>157,186,950</u>	<u>33,337</u>	<u>157,220,287</u>
Expenses			
Program services:			
Direct research expenses	124,801,615	-	124,801,615
Capitalized expenses for property and equipment	<u>(2,974,350)</u>	<u>-</u>	<u>(2,974,350)</u>
	<u>121,827,265</u>	<u>-</u>	<u>121,827,265</u>
Research unit/school expenses	4,209,078	-	4,209,078
Service centers	16,533,761	-	16,533,761
Other programs services	3,103,674	-	3,103,674
Interest expense	<u>312,253</u>	<u>-</u>	<u>312,253</u>
Total program services	<u>145,986,031</u>	<u>-</u>	<u>145,986,031</u>
Supporting services:			
University support	1,095,639	-	1,095,639
Research administration and unit support	13,526,696	-	13,526,696
Matching costs	<u>745,353</u>	<u>-</u>	<u>745,353</u>
Total supporting services	<u>15,367,688</u>	<u>-</u>	<u>15,367,688</u>
Total expenses	<u>161,353,719</u>	<u>-</u>	<u>161,353,719</u>
Change in net assets before transfers	(4,166,769)	33,337	(4,133,432)
Transfers to University	<u>(699,616)</u>	<u>-</u>	<u>(699,616)</u>
Change in net assets	(4,866,385)	33,337	(4,833,048)
Net assets, beginning of year	<u>115,609,073</u>	<u>8,816,806</u>	<u>124,425,879</u>
Net assets, end of year	<u>\$ 110,742,688</u>	<u>\$ 8,850,143</u>	<u>\$ 119,592,831</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENT OF ACTIVITIES
Year ended June 30, 2021

	Without Donor Restrictions	With Donor Restrictions	Total
Revenues, gains, and other support			
Direct research income	\$ 116,690,281	\$ -	\$ 116,690,281
Facilities & administrative (F&A) revenue	<u>28,243,846</u>	<u>-</u>	<u>28,243,846</u>
	<u>144,934,127</u>	<u>-</u>	<u>144,934,127</u>
Service centers	13,761,965	-	13,761,965
Royalties	1,374,181	-	1,374,181
Investment returns, net	13,099,244	2,154,860	15,254,104
Other income	1,740,556	-	1,740,556
Net assets released from restriction	<u>229,161</u>	<u>(229,161)</u>	<u>-</u>
	<u>30,205,107</u>	<u>1,925,699</u>	<u>32,130,806</u>
 Total revenues, gains and other support	 <u>175,139,234</u>	 <u>1,925,699</u>	 <u>177,064,933</u>
Expenses			
Program services:			
Direct research expenses	115,744,350	-	115,744,350
Capitalized expenses for property and equipment	<u>(2,328,102)</u>	<u>-</u>	<u>(2,328,102)</u>
	<u>113,416,248</u>	<u>-</u>	<u>113,416,248</u>
Research unit/school expenses	3,317,279	-	3,317,279
Service centers	6,315,667	-	6,315,667
Other programs services	2,647,519	-	2,647,519
Interest expense	<u>425,247</u>	<u>-</u>	<u>425,247</u>
Total program services	<u>126,121,960</u>	<u>-</u>	<u>126,121,960</u>
Supporting services:			
University support	881,004	-	881,004
Research administration and unit support	11,963,069	-	11,963,069
Matching costs	<u>462,585</u>	<u>-</u>	<u>462,585</u>
Total supporting services	<u>13,306,658</u>	<u>-</u>	<u>13,306,658</u>
Total expenses	<u>139,428,618</u>	<u>-</u>	<u>139,428,618</u>
 Change in net assets before transfers	 35,710,616	 1,925,699	 37,636,315
Transfers to University	<u>(298,906)</u>	<u>-</u>	<u>(298,906)</u>
Change in net assets	35,411,710	1,925,699	37,337,409
Net assets, beginning of year	<u>80,197,363</u>	<u>6,891,107</u>	<u>87,088,470</u>
Net assets, end of year	<u>\$ 115,609,073</u>	<u>\$ 8,816,806</u>	<u>\$ 124,425,879</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENTS OF CASH FLOWS
Years ended June 30, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Cash flows from operating activities		
Cash received for research contracts, grants and service accounts and unit support	\$ 146,483,742	\$ 142,464,707
Royalties received	977,907	1,347,181
Interest received	1,944,398	1,615,965
Payments to suppliers and University	(155,261,289)	(138,029,820)
Interest paid	(916,454)	(428,847)
Other operating receipts	<u>15,724,230</u>	<u>15,502,521</u>
Net cash from operating activities	<u>8,952,534</u>	<u>22,498,707</u>
Cash flows from investing activities		
Purchase of property and equipment	(5,560,362)	(4,225,328)
Purchase of investments	(10,265,851)	(8,004,950)
Proceeds from sales and maturities of investments	2,097,176	729,161
Collection of notes receivable	<u>49,315</u>	<u>4,059,013</u>
Net cash from investing activities	<u>(13,679,722)</u>	<u>(7,442,104)</u>
Cash flows from financing activities		
Principal payments on note payable	(3,666,823)	(4,286,756)
Principal payments on bonds	<u>(890,000)</u>	<u>(865,000)</u>
Net cash from financing activities	<u>(4,556,823)</u>	<u>(5,151,756)</u>
(Decrease) increase in cash and cash equivalents	(9,284,011)	9,904,847
Cash and cash equivalents, beginning of year	<u>37,198,498</u>	<u>27,293,651</u>
Cash and cash equivalents, end of year	<u>\$ 27,914,487</u>	<u>\$ 37,198,498</u>
Reconciliation of change in net assets to net cash provided by operating activities		
Change in net assets	\$ (4,833,048)	\$ 37,337,409
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation	3,662,831	3,896,127
Amortization	(291,948)	(402,706)
Loss on disposal of property and equipment	93,643	96,981
Realized and unrealized (gain) loss on investments	12,841,639	(13,638,139)
Transfer of assets to University of Kansas	699,616	298,906
Changes in:		
Accounts receivable, net	(2,945,454)	(2,163,660)
Prepaid expenses	(64,386)	21,028
Accounts payable and accrued expenses	1,775,835	(2,641,479)
Assets held for others	(1,838,420)	1,716,022
Deferred revenues - research	<u>(147,774)</u>	<u>(2,021,782)</u>
Net cash provided by operating activities	<u>\$ 8,952,534</u>	<u>\$ 22,498,707</u>

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, 2022 and 2021, 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, 2022 or 2021.

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

Net assets without donor restrictions are free of donor-imposed restrictions and includes resources available to be used in support of the Center's general operations.

Net assets with donor restrictions includes both resources that have been received 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, and net assets with donor restrictions 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. See Notes 9 and 10.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Revenue Recognition: The Center receives sponsored program funding, recognized as direct research income, from various governmental and corporate sources. The funding may represent a reciprocal transaction in exchange for an equivalent benefit in return, or it may be a nonreciprocal transaction in which the resources provided are for the benefit of the Center, the University, or the public at large.

Direct research income consisted of the following as of June 30:

	<u>2022</u>	<u>2021</u>
Non-Exchange	\$ 90,429,932	\$ 76,298,888
Exchange	<u>33,592,283</u>	<u>40,391,393</u>
	<u>\$ 124,022,215</u>	<u>\$ 116,690,281</u>

Approximately 66% and 63% of all grant revenues was received from three grantors (federal agencies) in the form of direct awards during the years ended June 30, 2022 and 2021, respectively.

Non-exchange support funded by grants is recognized as the Center reaches agreed milestones or incurs outlays eligible for reimbursement under the grant agreements. 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. 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.

Revenues from non-exchange transactions may be subject to conditions, in the form of both a barrier to entitlement and a refund of amounts paid (or a release from obligation to make future payments). Revenues from conditional non-exchange transactions are recognized when the barrier is satisfied. In addition, the Center has elected the simultaneous release option for conditional non-exchange transactions that are also subject to purpose restriction. Under this option, net assets without donor restrictions will include the revenues from these transactions in the same reporting period as the revenue is recognized.

As of June 30, 2022, the Center had approximately \$500 million of conditional funding available from granting agencies over the next five years, which will be earned as milestones are met or qualified expenses are incurred.

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.

Revenue from exchange transactions is recognized as the Center performs the contracted services.

Service Center revenues represent reciprocal transactions in exchange for an equivalent benefit and are thus recognized as an exchange transaction with revenue recognized as services are performed. Payment for these services is due within 30 days of billing and the Center reserves the right to suspend services in the event that billings for such services are not paid timely and neither the Center nor the University are liable for any resulting loss, damage or expense connected with such suspension. Service Center agreements may be terminated in whole or in part for any reason by either the Center or the customer upon 30 days' written notice to the other party.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

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, 2022 and 2021 are as follows:

	<u>2022</u>	<u>2021</u>
Accounts receivable:		
Federal	\$ 16,513,450	\$ 15,742,639
State	3,937,555	4,960,690
Other	<u>7,232,614</u>	<u>3,536,643</u>
	27,683,619	24,279,972
Allowance for doubtful accounts	<u>(1,591,886)</u>	<u>(1,133,693)</u>
	<u>\$ 26,091,733</u>	<u>\$ 23,146,279</u>

Revenues received for research projects are received either in advance of costs being incurred or on a cost-reimbursement basis. Amounts received for sponsored research in advance of revenue recognition being met are deferred. The activity and balance for deferred revenue from sponsored research are as follows:

	<u>Federal</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
Balance as of June 30, 2020	\$ 1,805,137	\$ 2,918,882	\$ 5,502,272	\$ 10,226,291
Revenue recognized	(1,805,137)	(2,918,882)	(5,502,272)	(10,226,291)
Payments received for future performance obligations	<u>932,051</u>	<u>1,914,569</u>	<u>5,357,889</u>	<u>8,204,509</u>
Balance as of June 30, 2021	932,051	1,914,569	5,357,889	8,204,509
Revenue recognized	(932,051)	(1,914,569)	(5,357,889)	(8,204,509)
Payments received for future performance obligations	<u>866,990</u>	<u>1,660,507</u>	<u>5,529,238</u>	<u>8,056,735</u>
Balance as of June 30, 2022	<u>\$ 866,990</u>	<u>\$ 1,660,507</u>	<u>\$ 5,529,238</u>	<u>\$ 8,056,735</u>

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.

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.

(Continued)

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

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, 2022 and 2021. At June 30, 2022 and June 30, 2021, the Center has not recorded any expected tax benefits.

Right of Use Assets and Lease Liabilities: Right of use ("ROU") assets represent the Center's right to use the underlying assets for the lease term and lease liabilities represent the net present value of the Center's obligation to make payments arising from these leases. The lease liabilities are based on the present value of fixed lease payments over the lease term using the implicit lease interest rate or, when unknown, the Center's incremental borrowing rate on the lease commencement date or July 1, 2020 for leases that commenced prior to that date. If the lease includes one or more options to extend the term of the lease, the renewal option is considered in the lease term if it is reasonably certain the Center will exercise the options. Operating lease expense is recognized on a straight-line basis over the term of the lease. As permitted by Topic 842, leases with an initial term of twelve months or less ("short-term leases") are not recorded on the accompanying balance sheet.

The Center has lease agreements with lease and non-lease components, which are accounted for as a single lease component under the practical expedient provisions of the standard. The Center has lease agreements with terms less than one year. For the qualifying short-term leases, the Center elected the short-term lease recognition exemption in which the Center will not recognize ROU assets or lease liabilities, including the ROU assets or lease liabilities for existing short-term leases of those assets in upon adoption.

Variable lease payments consist primarily of common area maintenance, utilities, and taxes, which are not included in the recognition of ROU assets and related lease liabilities. Variable lease payments and short-term lease expenses were immaterial to the Center's financial statements for the years ended June 30, 2022 and 2021. The Center's lease agreements do not contain material restrictive covenants. The Center is required to make annual rent payments based on the lease agreements. Additionally, the Center used one incremental borrowing rate of 1.898% on all its leases.

Reclassifications: Certain prior year amounts have been reclassified to conform to the current year presentation, with no effect on the change in net assets.

Subsequent Events: Management has performed an analysis of the activities and transactions subsequent to June 30, 2022, to determine the need for any adjustments or disclosures to the financial statements for the year ended June 30, 2022. Management has performed their analysis through September 30, 2022, the date the financial statements were issued.

(Continued)

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.

Where quoted market prices are available in an active market, securities are classified within Level 1 of the valuation hierarchy. Level 1 securities include United States treasury bills, mutual funds, and money market funds.

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 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.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 2 - INVESTMENTS (Continued)

The Center's investments consisted of the following:

	June 30, 2022		
	<u>Fair Value</u>	<u>Level 1</u>	<u>NAV</u>
Unites States treasury bills	\$ 34,725	\$ 34,725	\$ -
Mutual funds:			
Domestic equity funds	20,384,824	20,384,824	
Domestic bond funds	28,763,285	28,763,285	-
Domestic real estate funds	8,439,341	8,439,341	
International equity funds	13,104,832	13,104,832	
International bond funds	7,621,313	7,621,313	
International real estate funds	4,010,898	4,010,898	-
Money market funds	60,866	60,866	-
Common Stock	80,000	-	80,000
Investments held by KU Endowment	<u>8,851,862</u>	<u>-</u>	<u>8,851,862</u>
	<u>\$ 91,351,946</u>	<u>\$ 82,420,084</u>	<u>\$ 8,931,862</u>

	June 30, 2021		
	<u>Fair Value</u>	<u>Level 1</u>	<u>NAV</u>
Unites States treasury bills	\$ 43,867	\$ 43,867	\$ -
Mutual funds:			
Domestic equity funds	22,033,678	22,033,678	-
Domestic bond funds	30,096,028	30,096,028	-
Domestic real estate funds	8,860,949	8,860,949	-
International equity funds	13,870,752	13,870,752	-
International bond funds	7,923,964	7,923,964	-
International real estate funds	4,330,524	4,330,524	-
Money market funds	46,623	46,623	-
Investments held by KU Endowment	<u>8,818,525</u>	<u>-</u>	<u>8,818,525</u>
	<u>\$ 96,024,910</u>	<u>\$ 87,206,385</u>	<u>\$ 8,818,525</u>

Total investment return (loss) is comprised of the following:

	<u>2022</u>	<u>2021</u>
Interest and dividend income, net	\$ 1,944,398	\$ 1,615,965
Realized gain	1,807,211	1,057,736
Unrealized gain/(loss)	<u>(14,648,850)</u>	<u>12,580,403</u>
	<u>\$ (10,897,241)</u>	<u>\$ 15,254,104</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

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 had an original maturity date of June 21, 2020. However, during the year ended June 30, 2020, the Center extended the maturity of the note to June 21, 2030, requiring 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 2030) 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 in fiscal year 2021.

During the years ended June 30, 2017 and 2018, the Center made total advances of \$4,000,000 under a newly issued promissory note with BTBC. 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. In June 2021, the Center received full repayment for this note.

Notes are recorded at the unpaid principal balance. Management believes the remaining 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:

	June 30, <u>2021</u>	<u>Additions</u>	<u>Repayments</u>	June 30, <u>2022</u>	Current <u>Portion</u>
BTBC notes	\$ 604,390	\$ -	\$ 49,315	\$ 555,075	\$ 105,003

Future repayment activity for the notes is as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	\$ 105,003	\$ 44,997	\$ 150,000
2024	55,872	19,128	75,000
2025	58,246	16,754	75,000
2026	60,722	14,278	75,000
2027	63,303	11,697	75,000
Thereafter	<u>211,929</u>	<u>18,488</u>	<u>230,417</u>
	<u>\$ 555,075</u>	<u>\$ 125,342</u>	<u>\$ 680,417</u>

In April 2021, as part of BTBC obtaining an unrelated, third-party bank loan to construct an additional phase of its facility, KUCR entered into an agreement with BTBC, structured as a “springing” or contingent lease, whereby KUCR agrees to lease a certain portion of BTBC’s facility if BTBC is unable to achieve sufficient occupancy or to meet associated financial covenants. KUCR has assessed the likelihood of performing under this stand ready provision as remote and as such has not accrued a liability for this commitment as of June 30, 2022 and 2021.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 4 - PROPERTY AND EQUIPMENT

Property and equipment consisted of:

	June 30, <u>2021</u>	<u>Increases</u>	<u>Decreases</u>	June 30, <u>2022</u>
Land	\$ 808,808	\$ -	\$ -	\$ 808,808
Building	1,916,236	-	-	1,916,236
Office and scientific equipment	<u>73,150,129</u>	<u>4,183,331</u>	<u>(4,142,458)</u>	<u>73,191,002</u>
	75,875,173	4,183,331	(4,142,458)	75,916,046
Less accumulated depreciation	<u>59,869,819</u>	<u>3,662,831</u>	<u>(3,918,491)</u>	<u>59,614,159</u>
	16,005,354	520,500	(223,967)	16,301,887
Buildings and equipment in progress	<u>556,108</u>	<u>332,243</u>	<u>(80,612)</u>	<u>807,739</u>
Total property and equipment, net	<u>\$ 16,561,462</u>	<u>\$ 852,743</u>	<u>\$ (304,579)</u>	<u>\$ 17,109,626</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 were \$699,616 and \$298,906 during the years ended June 30, 2022 and 2021, respectively.

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, 2022 and 2021, these amounts totaled \$8,032,365 and \$9,870,785 respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 6 - BONDS PAYABLE

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

	<u>June 30, 2021</u>	<u>Additions</u>	<u>Retirements</u>	<u>June 30, 2022</u>	<u>Current Portion</u>
Revenue bond:					
Series 2014E	6,805,000	-	(890,000)	5,915,000	920,000
	<u>6,805,000</u>		<u>(890,000)</u>	<u>5,915,000</u>	<u>920,000</u>
Bond premiums	125,299	-	(23,918)	101,381	23,917
Bond issuance costs	<u>(82,456)</u>	<u>-</u>	<u>18,459</u>	<u>(63,997)</u>	<u>-</u>
Total	<u>\$ 6,847,843</u>	<u>\$ -</u>	<u>\$ (895,459)</u>	<u>\$ 5,952,384</u>	<u>\$ 943,917</u>

Long-term debt is comprised of the following:

<u>Revenue Bond</u>	<u>Balance at June 30, 2022</u>	<u>Balance at June 30, 2021</u>
<p>\$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 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 \$10,560,000 of the 2006G Kansas Development Finance Authority Tax-Exempt Revenue Bonds which were originally used to finance the construction of the Structural Biology Center Phase III building.</p>	<u>5,915,000</u>	<u>6,805,000</u>
	<u>\$ 5,915,000</u>	<u>\$ 6,805,000</u>

In accordance with University policy, the capitalized costs of facilities financed by the bond have been previously transferred to and are reported on University’s financial statements. These facilities include the Structural Biology Center Phase III building which was financed by 2014E. At June 30, 2022 and 2021, the net book value of this facility was approximately \$8.6 million and \$9.5 million, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 6 - BONDS PAYABLE (Continued)

Future revenue bond debt service requirements at June 30, 2022 are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	\$ 920,000	\$ 177,450	\$ 1,097,450
2024	950,000	149,850	1,099,850
2025	<u>4,045,000</u>	<u>121,350</u>	<u>4,166,350</u>
	<u>\$ 5,915,000</u>	<u>\$ 448,650</u>	<u>\$ 6,363,650</u>

The Series 2014 Bond is secured by loan agreements with the Kansas Development Finance Authority. The bond agreement contains various restrictive covenants. The Center is subject to limitations on additional indebtedness under the agreements. At June 30, 2022, the Center reported compliance with these covenants.

Interest expense, net of amortization, related to all bonds payable for the years ended June 30, 2022 and 2021, was \$169,500 and \$247,100, respectively.

NOTE 7 - NOTES PAYABLE

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

	<u>June 30, 2021</u>	<u>Additions</u>	<u>Retirements</u>	<u>June 30, 2022</u>	<u>Current Portion</u>
KU Endowment	\$ 2,453,723	\$	\$ (1,196,823)	\$ 1,256,900	\$ 1,256,900
Series 2012E Refunding	<u>7,790,000</u>	<u></u>	<u>(2,470,000)</u>	<u>5,320,000</u>	<u>2,595,000</u>
	10,243,723		(3,666,823)	6,576,900	3,851,900
Premium	<u>573,639</u>	<u></u>	<u>(286,489)</u>	<u>287,150</u>	<u>192,792</u>
Total	<u>\$ 10,817,362</u>	<u>\$</u>	<u>\$ (3,953,312)</u>	<u>\$ 6,864,050</u>	<u>\$ 4,044,692</u>

During the year ended June 30, 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.

Future repayment activity for the KU Endowment note is as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	<u>\$ 1,256,900</u>	<u>\$ 46,948</u>	<u>\$ 1,303,848</u>
	<u>\$ 1,256,900</u>	<u>\$ 46,948</u>	<u>\$ 1,303,848</u>

Interest expense related to this note for the years ended June 30, 2022 and 2021 was \$89,892 and \$131,654, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 7 - NOTES PAYABLE (Continued)

During the year ended June 30, 2020, the Center entered into a loan agreement with the University related to the refunding of the Series 2012E bonds originally used to finance the construction of the Multidisciplinary Research building for a principal sum of \$10,145,000. The note bears interest at 5.0% and matures in May of 2024.

Future repayment activity for the Series 2012E refinancing note is as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	\$ 2,595,000	\$ 266,000	\$ 2,861,000
2024	<u>2,725,000</u>	<u>136,250</u>	<u>2,861,250</u>
	<u>\$ 5,320,000</u>	<u>\$ 402,250</u>	<u>\$ 5,722,250</u>

Interest expense related to this note for the years ended June 30, 2022 and 2021 was \$45,608 and \$46,493, respectively.

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, 2022 and 2021 was as follows:

	<u>2022</u>	<u>2021</u>
<u>University Activity (Unaudited)</u>		
University Research Expenditures	\$ 11,301,159	\$ 12,587,148
University Indirect Cost	<u>2,490,025</u>	<u>3,088,680</u>
Total University Activity (Unaudited)	13,791,184	15,675,828
<u>Center for Research Expenditures</u>		
Center for Research Expenditures	123,473,261	114,633,311
CARES Act Grant Expenditures	1,328,354	1,111,039
Center Indirect Cost	<u>27,393,176</u>	<u>28,243,846</u>
Total Center for Research Expenditures	<u>152,194,791</u>	<u>143,988,196</u>
Total Sponsored Expenditures – University and Center (unaudited)	<u>\$ 165,985,975</u>	<u>\$ 159,664,024</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 9 - NET ASSETS

Net assets with donor restrictions at June 30 are restricted for the following purposes:

	<u>2022</u>	<u>2021</u>
Dole Institute	\$ 7,382,692	\$ 7,365,396
Humanities	<u>1,467,451</u>	<u>1,451,410</u>
	<u>\$ 8,850,143</u>	<u>\$ 8,816,806</u>

The income generated from these 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>2022</u>	<u>2021</u>
Dole Institute	\$ 233,265	\$ 195,262
Humanities	<u>56,343</u>	<u>33,899</u>
	<u>\$ 289,608</u>	<u>\$ 229,161</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 net assets with donor restrictions to be kept in perpetuity as 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 net assets with donor restrictions not to be retained in perpetuity until those amounts are appropriated for expenditure by the Center in a manner consistent with the standard of prudence prescribed by SPMIFA.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 10 – ENDOWMENTS (Continued)

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

As of June 30, 2022 and 2021, the original corpus value of the endowment was \$5,995,806. The changes in donor-restricted endowment net assets for the years ended June 30, 2022 and 2021 were:

Endowment net assets, June 30, 2020	\$ 6,891,107
Investment return, net	2,154,860
Amounts appropriated for expenditure	<u>(229,161)</u>
Endowment net assets, June 30, 2021	8,816,806
Investment return, net	322,945
Amounts appropriated for expenditure	<u>(289,608)</u>
Endowment net assets, June 30, 2021	<u>\$ 8,850,143</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, 2022 and 2021.

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, 2022 and 2021

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 30 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, 2022 and 2021, amounts paid by the University (and reimbursed by the Center) for salaries, benefits, scholarships, fellowships, tuition, and other operating expenses amounted to approximately \$110,381,080 and \$102,162,387, respectively. Of these amounts, approximately \$11,422,698 and \$10,366,407 are included in accounts payable and accrued expenses at June 30, 2022 and 2021, respectively.

Grants administered by the Office of Research, an administrative division of the University, have contracts/financial activity in the name of the University. When KUCR service center activity is being paid by the University, KUCR bills the University for the services. Receivable from the University in the amounts of \$3,851,609 and \$756,918 are included in accounts receivable at June 30, 2022 and 2021, 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, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Provost funding:		
Salaries and benefits	\$ 5,326,841	\$ 2,344,294
Other Investments	<u>2,185,635</u>	<u>2,231,307</u>
	7,512,476	4,575,601
Utilities	62,239	48,746
Information technology services	66,258	66,258
Maintenance	67,198	21,943
Custodial	<u>31,906</u>	<u>35,118</u>
	<u>\$ 7,740,077</u>	<u>\$ 4,747,666</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, 2022 and 2021.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 11 - RELATED PARTY TRANSACTIONS (Continued)

The Center provided support to KU Endowment for departmental benefit in funding research, graduate studies, distinguished professorships, scholarships, and fellowships. Support of \$1,268,669 and \$1,450,436 was provided to KU Endowment during the fiscal years 2022 and 2021 and is included in other program services on the statement of activities.

During the years ended June 30, 2022 and 2021, the Center and the University of Kansas Medical Center Research Institute, Inc. jointly fund the operations of KU Center for Technology Commercialization (KUCTC) and \$1,187,375 was provided to KUCTC for both years.

NOTE 12 - LEASES

Non-cancellable 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 maturities of lease liabilities as of June 30, 2022 were:

2023	\$ 780,560
2024	753,842
2025	672,230
2026	426,764
2027	350,378
Thereafter	<u>3,605,877</u>
	6,589,651
Less: Interest	<u>(760,267)</u>
	<u>\$ 5,829,384</u>

Rent expense for all operating leases was \$954,216 and \$1,062,893 for the years ended June 30, 2022 and 2021, 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 \$4,724,906 and \$4,245,078 for 2022 and 2021 to the defined contribution pension program for general and administrative salaries, 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.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 NOTES TO FINANCIAL STATEMENTS
 June 30, 2022 and 2021

NOTE 15 - LIQUIDITY AND AVAILABILITY

The Center's financial assets available within one year of the statement of financial position date for general expenditure are as follows:

	<u>2022</u>	<u>2021</u>
Financial assets at year-end:		
Cash and cash equivalents	\$ 27,914,487	\$ 37,198,498
Current investments	82,420,084	87,206,385
Accounts receivable, net	26,091,763	23,146,279
Notes receivable, net – current	<u>105,003</u>	<u>100,723</u>
Total financial assets	136,531,337	147,651,885
Less amounts not available to be used:		
Investments held as assets held for others	<u>(8,032,365)</u>	<u>(9,870,785)</u>
Financial assets available to meet general expenditures within one year	<u>\$ 128,498,972</u>	<u>\$ 137,781,100</u>

As part of the Center's liquidity management, the Center invests its financial assets to be available as its general expenditures, liabilities, and other obligations come due.

The investments held and managed by the Kansas University Endowment Association (KU Endowment) as described in Note 10 are considered donor restricted, long-term investments and are thus excluded from the assets available for general expenditure.

NOTE 16 - EXPENSES BY NATURE

The statements of activities report certain categories of expenses attributable to the program and supporting services functions of the Center.

Personnel related costs are charged based upon actual time incurred for sponsored research or other functions as assigned by department and reimbursed to the University for time incurred.

Other expenses are generally charged directly to the function to which the expenditure applies, though internal service fees charged by service centers for the benefit of sponsored research or other program services are allocated to those functions based upon the actual internal billing of services rendered. Other expenses include items such as utilities, repairs, postage, communications, and other natural categories not considered material for specific disclosure.

The tables on the following page present these functional expenses by their natural classification.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2022 and 2021

NOTE 16 - EXPENSES BY NATURE (Continued)

Year ended June 30, 2022:

	Program Services						Support Services			Total
	Direct Research Expenses	Capitalized Expenses for Property and Equipment	Research Unit/School Expenses	Service Centers	Other Programs Services	Interest Expense	University Support	Research Admin., Unit Support, Startup	Matching Costs	
Personnel	\$ 54,002,497	\$ -	\$ 1,832,904	\$ 13,752,642	\$ 746,653	\$ -	\$ 71,996	\$ 7,139,977	\$ 316,143	\$ 77,862,812
Fringe Benefits	12,575,430	-	488,700	3,961,305	113,186	-	18,252	2,061,102	58,424	19,276,399
Subaward payments	13,739,783	-	-	(52,000)	-	-	-	-	-	13,687,783
Professional Fees	6,093,461	-	123,253	5,799,447	1,231,034	-	619,646	161,489	5,637	14,033,967
Supplies	4,797,145	-	424,270	2,219,179	37,587	-	2,648	316,078	67,839	7,864,746
Travel and Food	1,851,674	-	229,672	286,114	20,932	-	14,887	98,866	17,540	2,519,685
Tuition	6,130,178	-	185,133	166,595	43,462	-	41,250	97,493	134,647	6,798,758
Internal Service Fees (allocated)	10,316,068	-	35,731	(10,429,976)	25,905	-	-	8,864	43,408	-
Participant Fees	5,242,134	-	20,053	3,551	(44)	-	(360)	2,786	100,361	5,368,481
Depreciation	2,342,551	-	104,752	557,804	4,586	-	-	653,138	-	3,662,831
Equipment and other non-capital	3,759,725	(2,974,350)	22,319	53,240	35,977	-	34,996	210,019	17,739	1,159,665
Other Expense	3,950,969	-	742,291	215,860	844,396	-	292,324	2,776,884	(16,385)	8,806,339
Interest Expense	-	-	-	-	-	312,253	-	-	-	312,253
Total	<u>\$ 124,801,615</u>	<u>\$ (2,974,350)</u>	<u>\$ 4,209,078</u>	<u>\$ 16,533,761</u>	<u>\$ 3,103,674</u>	<u>\$ 312,253</u>	<u>\$ 1,095,639</u>	<u>\$ 13,526,696</u>	<u>\$ 745,353</u>	<u>\$ 161,353,719</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 NOTES TO FINANCIAL STATEMENTS
 June 30, 2022 and 2021

NOTE 16 - EXPENSES BY NATURE (Continued)

Year ended June 30, 2021:

	Program Services						Support Services			Total
	Direct Research Expenses	Capitalized Expenses for Property and Equipment	Research Unit/School Expenses	Service Centers	Other Programs Services	Interest Expense	University Support	Research Admin., Unit Support, Startup	Matching Costs	
Personnel	\$ 51,180,215	\$ -	\$ 1,543,000	\$ 9,792,283	\$ 747,184	\$ -	\$ (33,791)	\$ 5,939,651	\$ 169,779	\$ 69,338,321
Fringe Benefits	11,576,456	-	455,074	2,751,898	162,550	-	(3,004)	1,545,270	37,115	16,525,359
Subaward payments	10,502,100	-	-	-	52,000	-	-	-	-	10,554,100
Professional Fees	5,253,304	-	(45,136)	4,372,042	966,200	-	445,150	360,944	4,657	11,357,161
Supplies	5,530,312	-	344,095	2,062,909	19,720	-	14,260	214,832	31,845	8,217,973
Travel and Food	428,262	-	35,497	48,918	(19,050)	-	5,036	16,684	5,269	520,616
Tuition	5,923,988	-	91,192	87,677	13,207	-	16,982	95,865	176,190	6,405,101
Internal Service Fees (allocated)	13,195,912	-	44,502	(13,258,812)	8,292	-	-	3,047	7,059	-
Participant Fees	3,031,786	-	18,038	1,642	(1,644)	-	2,425	8,470	51,048	3,111,765
Depreciation	2,612,411	-	110,166	70,937	4,378	-	-	1,098,235	-	3,896,127
Equipment and other non-capital	2,637,288	(2,328,102)	11,257	64,866	(28,040)	-	82,588	108,681	65,544	614,082
Other Expense	3,878,142	-	709,592	321,307	722,722	-	351,358	2,571,391	(91,746)	8,462,766
Interest Expense	-	-	-	-	-	425,247	-	-	-	425,247
Total	<u>\$ 115,750,176</u>	<u>\$ (2,328,102)</u>	<u>\$ 3,317,277</u>	<u>\$ 6,315,667</u>	<u>\$ 2,647,519</u>	<u>\$ 425,247</u>	<u>\$ 881,004</u>	<u>\$ 11,963,070</u>	<u>\$ 456,760</u>	<u>\$ 139,428,618</u>

SUPPLEMENTARY INFORMATION

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster				
Department of Agriculture				
<u>Direct</u>				
Modeling Projects to Support and Advance	10.025	AP21VSSP000 0C076		\$ 23,060
NRI: INT: COLLAB: Collaborative Autonomy and Safety for Teamed Human-Unmanned Aircraft Systems in Fast Evolving Wildfire Environment	10.310	2019-67021- 28992		5,259
NRI: INT: COLLAB: An autonomous insect Sense, Identify, and Manage Platform	10.310	2019-6702- 28986		93,861
Legume-rhizobia mutualism as a driver of grassland composition and community resistance to invasion	10.310	2019-67012- 29534		27,130
NRI: INT: COLLAB: Collaborative Autonomy and Safety for Teamed Human-Unmanned Aircraft Systems in Fast Evolving Wildfire Environment	10.310	2019-67021- 28992		85,746
Productivity and Soil Fertility Responses to Grassland Plant Diversity: Testing Competing Hypotheses	10.310	2020-67034- 31889		82,818
SitS: Collaborative Research: Soils are signaling shifts in aggregate life-cycles: What does this mean for water, carbon and climate feedbacks in the Anthropocene?	10.310	2021-67019- 34338		40,207
Irrigation at the new 100th Meridian: Adaptation to manage climate risks and preserve water resources in the Eastern Kansas River Basin	10.310	2022-67019- 37181		8
Subtotal for AL No. 10.310				335,029
Ethnobotanical Research, Mapping and Monitoring on the Rio Grande National Forest	10.699	17-CS- 11020900-019		4,989
Subtotal: Department of Agriculture- Direct				363,078
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Linking microbiome function and microbial processes to plant genetic diversity in a foundation forage grass across the Great Plains grassland climate gradient: a multi-omics approach	10.310	A21-0128-S002	2020-67019-31803	25,933
<u>Passthrough- MICHIGAN STATE UNIVERSITY</u>				
INFEWS/T1: Developing Pathways Toward Sustainable Irrigation Across The Continental United States Using Process-based Systems Models (SIRUS)	10.310	RC108063UK	2018-67003-27406	63,168
<u>Passthrough- NATURAL RESOURCES CONSERVATION SERVICE</u>				
Modeling water quality and in-stream biological endpoints of agricultural conservation in the Mississippi River Basin	10.902	NR203A75002 3C023		116,325
<u>Passthrough- NORTH CAROLINA STATE</u>				
Dissecting Molecular Plant-Microbiome Interactions for Improved Drought Tolerance in Maize.	10.310	2022-0475-01	2022-67013-36672	639

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Agriculture (Continued)				
<u>Passthrough- UNIVERSITY OF MINNESOTA</u>				
Developing and deploying a perennial grain crop enterprise to improve environmental quality and rural prosperity	10.310	82890	2020-68012-31934	\$ 47,912
Robust incentive design for sustainable agricultural systems	10.310	82653	2020-67023-3326	16,699
Subtotal: Department of Agriculture-Passthrough				270,676
Total: Department of Agriculture				633,754
Department of Commerce				
<u>Direct</u>				
University Center Program: The University Center will engage in RedTire expansion, entrepreneurial consulting, a venture student incubator and commercialization of STEM research.	11.303	ED18DEN3030 031		141,957
COVID-19: Application for administration of supplemental planning grant for CARES Act Recovery Assistance	11.307	ED20DEN3070 059		134,389
Airborne Snow Depth Retrieval for Improved Hydrological Modeling	11.459	NA19OAR4590 206		57,688
Subtotal: Department of Commerce- Direct				334,034
<u>Passthrough- AECOM</u>				
AECOM Community Resilience Support Services	11.618	MSA 20S25523GV0 3	1333ND19DNB7300 13	(6,877)
<u>Passthrough- COLORADO STATE</u>				
Center for Risk-Based Community Resilience Planning	11.609	G-99042-10	70NANB20H008	101,145
<u>Passthrough- UNIVERSITY OF ALABAMA-TUSCALOOSA</u>				
Center for Remote Sensing of Snow and Soil Moisture Measurement	11.432	A20-0344-S001	NA19NES4320002	78,229
Center for Remote Sensing of Snow and Soil Moisture Measurement	11.462	A18-0336-S001-	NA18NWS4620043B A04	5,612
<u>Passthrough- UNIVERSITY OF OKLAHOMA</u>				
Southern Climate Impacts Planning Program (SCIPP) Phase III	11.431	2019-11		4,026
Subtotal: Department of Commerce-Passthrough				182,135
Total: Department of Commerce				516,169

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Defense				
<u>Direct</u>				
Waveform Diversity Experimentation System (WaDES)	12.300	N00014-19-1-2666		\$ 116,057
Improving regional model representation of cloudy boundary layers across midlatitude synoptic systems in NRL COAMPS	12.300	N00014-20-1-2519		73,787
Subtotal for AL No. 12.300				189,844
High-throughput TCR repertoire-based platforms for antigen-specific cancer immunotherapy	12.420	W81XWH-18-1-0296		45,398
Development of a Military-Specific Transdiagnostic Eating-Disorder Survey and Screening Tool in a Nationally Representative Sample of Veterans	12.420	W81XWH1910207		570,353
Targeting RNA-binding protein HuR as a novel therapy for lethal prostate cancer	12.420	W81XWH2110573		90,939
Subtotal for AL No. 12.420				706,690
Electrochemistry: Development of a "Macro" SI-SCEM Protocol to Investigate Reaction Intermediates for the HER and OER, and its Use for Designing Earth-Abundant Electrocatalysts	12.431	W911NF-17-1-0098		985
Parametric Resonances in Time-Varying Media for Optical Limiting Applications	12.800	FA9550-20-1-0046		108,492
Stochastic control for systems with non-Gaussian noise	12.800	FA9550-20-1-0336		180,289
Pushing the Limit for Large Eddy Simulation Through a Kinetic Energy and Entropy Preserving FR method, and Mesh Adaptation Based on Machine Learning	12.800	FA9550-20-1-0315		140,584
Subtotal for AL No. 12.800				429,365
Archaeological Curation Agreement with Tulsa District COE	12.000	W912BV-16-P-0087		17
Graduate Research Assistant Support Services RFQ (HQ0034-16-T-0166)	12.000	HQ0034-16-P-0203		743
Science of Security for Cyber-physical Systems (SCpS)	12.000	H98230-18-D-0009		578,207
Enhanced Implementation of K-Scope & ASII Tunnel Detection Analysis Approach Using FWI, Modal Segmentation Methods, and Integrated Multi-Modal Techniques	12.000	W912HZ19C0014		468,436
Advancement in Seismic Imaging for Tunnel Detection: ASI to ASII-skinny	12.000	W912HZ19C0031		136,135
Navy Applications of Physical MIMO and Waveform Diversity	12.000	N00014-20-C-1006		628,625
Automated Iceberg Identification Using Machine Learning Imaging Techniques	12.000	W913E521C0022		21,341

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Defense (Continued)				
<u>Direct</u>				
Novel 3D Printed Zeolite Passive Samplers Enabling Fast and Reliable Measurements of PFAS in Complex Environmental Matrices (EL-32)	12.000	W912HZ21200 46		\$ 64,182
Improving the Performance of Concrete Dam Infrastructure Through Use of Fiber-Reinforced Polymers	12.000	W912HZ22C00 16		39,076
Waveform Diversity for Complex Environments	12.000	W911NF20202 71		105,008
Subtotal for AL No. 12.000				2,041,770
Subtotal: Department of Defense- Direct				3,368,653
<u>Passthrough- ADAPTIVE METHODS</u>				
Advanced Sonar Signal Processing	12.000	PO-9418	N00024-20-C-5211	46
<u>Passthrough- ADVANCED TECHNOLOGY INTERNATIONAL</u>				
Coded APSK for Improved Spectral Efficiency in Aeronautical/Mobile Telemetry	12.000	2017-319		240,175
<u>Passthrough- ADVENTIUM LABS</u>				
Vulnerabilities Out of Learned Timed Automata (VOLTA)	12.000	1071-001-001- 007	FA8750-19-C-0083	97,571
<u>Passthrough- BRIGHAM YOUNG UNIVERSITY</u>				
Space Time Coding for Multi-h CPM	12.000	17-0493	W15QKN-15-9-1004	234,642
<u>Passthrough- COLLINS AEROSPACE</u>				
StairCASE	12.000	CW2251607	HR00111890001	105,264
<u>Passthrough- DARCORPORATION</u>				
Model and Mode Agnostic AI Controller for VTOL Aircraft	12.000	24751	STTR	21,077
<u>Passthrough- DEFENSE ENGINEERING CORPORATION</u>				
Waveform Research and Development for Emerging RF Sensing Technologies	12.000	10343	FA8650-20-C-1955	167,450
<u>Passthrough- IERUS TECHNOLOGIES, INC.</u>				
Quasi-Orthogonal Doppler Waveform Apps	12.000	2021-KU-001	W56KGU-21-C-0025	62,922
SBIR Phase I - Optimized Waveforms for X-band Missile-Defense Radars	12.000	22-KU-001	HQ0860-22-C-7047	36,946
<u>Passthrough- NEW SOUTH ASSOCIATES</u>				
Curation Services FY21	12.000	6201_KU_Cura tion	W912P921F0296	14,295
<u>Passthrough- PURDUE UNIVERSITY</u>				
Distributed Machine Learning and Sensor Fusion for Spectrum Sensing System Optimization	12.300	13000894-004		7,025
Distributed Spectrum Scenario Fusion and Compression	12.300	13001026-012	N00014-21-1-2472	47,390

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Defense (Continued)				
<u>Passthrough- SOUTHWESTERN OHIO COUNCIL FOR HIGHER EDUCATION (SOCHE)</u>				
Wideband Fast Spatial Spectrum Sensing Using Digital Beamforming	12.300	RY3-KU-20-6-AFRL2	FA8650-19-2-9300	\$ 20,354
<u>Passthrough- UNIVERSITY OF CALIFORNIA - SAN DIEGO</u>				
Complex Linkages, Ambivalent Ties: Global Security and Economic Interdependence in the 21st Century	12.630	KR 704373	FA9550-21-1-0143	13,328
Economic Interdependence and National Security in the 21st Century	12.630	703707	FA9550-20-1-0145	33,866
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Does TBI Affect mtDNA Heteroplasmy?	12.420	Z3H00010	W81XWH 18-1-0497	23,151
<u>Passthrough- UNIVERSITY OF MICHIGAN</u>				
Multi-Fidelity Modeling of Rocket Combustor Dynamics	12.800	SUBK00016454	FA9550-17-1-0195	41,647
<u>Passthrough- WESTERN UNIVERSITY OF HEALTH SCIENCES</u>				
Therapeutic Intervention of Crimean Congo Hemorrhagic Fever: A Tick Born Viral Illness	12.420	20158V-MIR-UKCR	W81XWH2010279	58,173
<u>Passthrough- WRIGHT BROTHERS INSTITUTE</u>				
Frequency Diverse Array Receive Algorithm Development	12.800	WBSRA-21-021-UKCR	FA8650-18-3-9326	70,357
<u>Passthrough- ZENOLEAP LLC</u>				
Uncooled Quantum Infrared Focal Plane Arrays	12.000	W909MY-21-C-0033-Sub	W909MY-21-C-0033	46,542
Subtotal: Department of Defense- Passthrough				1,342,221
Total: Department of Defense				4,710,874
Department of Education				
<u>Direct</u>				
Fulbright-Hays Doctoral Dissertation Research Abroad Award	84.022	P022A210054		5,815
Funds for the Improvement of Postsecondary Education	84.116	P116Z990008		5,049,881
The Effects of Promoting Engaging Early Literacy Interactions in Preschool Environments: Literacy 3D	84.305	R305A170241		193,645
Effects of Implicit Bias on Children's Early Outcomes	84.305	R305A190199		289,702
AspirePlus: A Researcher-Practitioner Partnership to Promote Self-Determination and More Positive Student Outcomes	84.305	R305H190017 Act 2		77,373
Improving Software and Methods for Estimating Diagnostic Classification Models and Evaluating Model Fit	84.305	R305D210045		70,220
Subtotal for AL No. 84.305				630,940

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
Middle School Class-wide Function-related Intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	84.324	R324A160279		\$ 23,669
MTSS and Self-Determination: Examining the Impact of Tier 1 Supports to Promote Self-Determination and Academic Outcomes	84.324	R324A170008		591,739
Professional Development to Support Teachers' Implementation of a Tiered Model for Promoting Social Development of Infants and Toddlers	84.324	R324A170118		206,970
Validation of Cognitive Problem-Solving and Movement Infant-Toddler IGDIs for Screening and General Outcome Progress Monitoring	84.324	R324A150166-17		68,249
Measuring Early Communication Development in Children with ASD	84.324	R324A160072		11,694
Development of a Data-based Decision Making System to Support Educators' Promotion of Infants and Toddlers' Cognitive Problem-Solving Skills	84.324	R324A170141 - 19		272,207
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		242,150
Factors Contributing to Academic, Social/Communication, and Behavioral Outcomes for Elementary Students with the Most Significant Cognitive Disabilities	84.324	R324A180024		237,258
Promoting Teacher Use of the Supports Intensity Scale-Children's Version to Engage in Supports Planning to Enhance Access to the General Education Curriculum for Children with Intellectual Disability	84.324	R324A180034 - 20		250,251
Project DataWall: A Decision Support System for MTSS	84.324	R324A190054		266,322
Promoting Self-Determination for Students with Disabilities: A Goal-Setting Challenge App	84.324	R324A180012		219,970
Possible Selves and Self-Determination: Improving Transition Outcomes for High School Students with Learning Disabilities	84.324	R324A190011 - 20		347,634
Project SCREEN: Validation of a Free-Access Screening Tool for K-12 Educators to Screen Students with Internalizing and Externalizing Behavior Patterns	84.324	R324A190013		394,294

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
Enhancing Ci3T: Building Professional Capacity for High Fidelity Implementation to Support Students' Educational Outcomes (Project ENHANCE)	84.324	R324N190002		\$ 804,643
Promoting ASAP Collaboration through Technology IPACT): An Intervention Modification to Enhance Home-School Collaboration	84.324	R324A170151 - 19		16,179
5E Model Professional Development in Science Education for Special Educators (5E-SESE)	84.324	R324A18202		154,949
Combining the Self-Determined Learning Model of Instruction and Peer Supports: Examining the Impact on Academic, Social, and Functional Outcomes for Students with Autism Spectrum Disorders	84.324	R324A200007		571,029
Professional Development to Support Intervention Implementation of the Promoting Communication Tools for Advancing Language in Kids (PC TALK) for Infants and Toddlers at Risk for or with Disabilities	84.324	R324A190223		162,415
Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improving Academic Engagement and Outcomes for Middle School Students	84.324	R324A200063		362,177
Validity of a Nonspeech, Dynamic Assessment of the Alphabetic Principle (DAAP)	84.324	R324A200190		58,038
Subtotal for AL No. 84.324				5,261,837
KU ACCESS: Leadership in Access, College, Career, and Extensive and Significant Supports for Secondary Students with Severe Disabilities	84.325	H325D140031- 17		53,730
Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel	84.325	H325D160080		124,424
Strengthening Outcomes for All learners in Inclusive Settings (SOARS)	84.325	H325K160141 - 20		86,678
Subtotal for AL No. 84.325				264,832

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
Shared Writing Instructional Model(SWIM) for Students with Intellectual Disabilities	84.326	H326M180010		\$ 330,451
Making It Happen: Stepping Up Implementation of IGDl Technology to Improve Data-based Decision Making for Infants and Toddlers with or at-risk for Disabilities	84.327	H327S140024		57,132
Stepping Up Technology Enabled Self-Monitoring For High School Students with Disabilities	84.327	H327S170001		267,318
Virtual reality Opportunities to Integrate Social Skills (VOISS)	84.327	H327S180006		485,553
Center for Innovation, Design, and Digital Learning	84.327	H327F200008		459,541
Special Educator Technology-based Training of Trainers (SETTT) for Success	84.327	H327S200015		405,568
Project WRITE-APLM: Writing strategies for Integrating Technology in Education with the Adaptive Professional Learning Model	84.327	H327S210009		198,907
Subtotal for AL No. 84.327				1,874,019
KU Transition to Postsecondary Education for Youth with ID	84.407	P407A150017 - 19		2,824
Supporting High-Needs Elementary Students with the CW-FIT Program: Building for Scale and Sustainability	84.411	U411B190025		1,111,154
Subtotal: Department of Education- Direct				14,531,753
<u>Passthrough- ARCTIC SLOPE COMMUNITY FOUNDATION INC.</u>				
Writing and Revising Interventions to Excel: Using Learning Maps and interventions to improve written communication (WRITE for Alaska Native CTE students	84.356	25781 ASCF		162,277
<u>Passthrough- CAST, INC.</u>				
CORGI 2020: Scaling Models for the Classrooms of Tomorrow	84.327	KUCR110119- 24	H327S190008	124,553
<u>Passthrough- CENTER FOR APPLIED SCIENCE TECHNOLOGY IN</u>				
Project Coaching On Learning (COOL) for UDL Implementation	84.326			42,864
<u>Passthrough- KANSAS DEPARTMENT OF EDUCATION</u>				
Kansas SPDG Evaluation	84.323	652-18-1939	SPDG Evaluation	125,424
<u>Passthrough- LAS CRUCES PUBLIC SCHOOLS</u>				
Comprehensive Literacy State Development Grant - Las Cruces Public Schools	84.371	CSA20-21-01		161,430
<u>Passthrough- MARYLAND STATE DEPARTMENT OF EDUCATION</u>				
Innovations in Science Map, Assessment, and Report Technologies (I-SMART)	84.368	190496/201566 /211174		126,180

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Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Passthrough- METROPOLITAN NASHVILLE PUBLIC SCHOOLS</u>				
GEAR UP Nashville Project	84.334	2-00530-01	Gaining Early Awareness and Readiness for Undergraduate Programs	\$ 194,820
<u>Passthrough- NATIONAL CENTER ON DEAF BLINDNESS</u>				
Student Characteristics and Foundational Learning Map and Resource Development	84.326	23602	Special Education—Technical Assistance and Dissemination to Improve Services and Results for Children	176,600
<u>Passthrough- OREGON DEPARTMENT OF EDUCATION</u>				
Oregon Aspiring Leaders Summer Institute	84.027	15875	H027A200095	115,413
<u>Passthrough- PURDUE UNIVERSITY</u>				
Para-Impact: Professional Development with Teacher-as-Coach for Paraeducators of Elementary Students with Moderate-to-Severe Developmental Disabilities	84.324	19100063-004		57,241
<u>Passthrough- UNIVERSITY OF CONNECTICUT</u>				
Exploring Relationships between College and Career Readiness, Self-Determination, and Transition Planning among Adolescents with Disabilities	84.324	147118963	R324A210245	34,121
<u>Passthrough- UNIVERSITY OF MISSOURI - COLUMBIA</u>				
Evaluating the Efficacy of a Daily Check-in/Check-out Intervention for Students At-Risk for Emotional and Behavioral Disorders	84.324	C00064320-2		137,341
<u>Passthrough- UNIVERSITY OF TEXAS-AUSTIN</u>				
The Self-Determined Learning Model of Instruction for Reading (SDLMI-R): Improving Outcomes of Upper Elementary Students with or At-Risk for Reading Disability	84.324	UTA21-000354	R324A210204	22,737
<u>Passthrough- UNIVERSITY OF WISCONSIN-MADISON</u>				
Item Development for New Forms of Alternate ACCESS for ELLs (Alt ACCESS Advancing ALTELLA: Alternate Assessment Redesign	84.368	21-8598		116,421
Item Development for New Forms of Alternate ACCESS for ELLs (Alt ACCESS Advancing ALTELLA: Alternate Assessment Redesign	84.368	22-8755	S368A190004	248,291
<u>Passthrough- VERMONT AGENCY OF EDUCATION</u>				
VT Inclusive Education Professional Learning	84.323	35355		4,954
Subtotal: Department of Education- Passthrough				<u>1,850,667</u>
Total: Department of Education				<u>16,382,420</u>

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Research and development cluster (Continued)				
Department of Energy				
<u>Direct</u>				
Mechanistic Studies to Enable Aerobic Oxidation of C-H Bonds by Manganese Catalysts	81.049	DE-SC0016359		\$ 104,899
Scrutinizing entrainment and mass flux closures in shallow cumulus parameterizations using cloud-radar observations and large-eddy simulation	81.049	DE-SC0016522		39,928
Searches for New Physics in Standard Model Processes	81.049	DE-SC0017988		18,233
Probing Small-x QCD Dynamics With Hadronic Collisions	81.049	DE-SC0019389		21,996
Molecular to Mesoscale Targeting of Oxoanions with Multi-Tasking Hosts	81.049	DE-SC0018629		5,296
Uranyl Capture and Activation with Lewis Acids and Macrocyclic Hosts	81.049	DE-SC0019169		136,008
Searching for the Nature of Dark Matter and Dark Energy	81.049	DE-SC0019474		88,757
Ab Initio Machine Learning Algorithms for Modeling Kinetics on Amorphous Catalysts	81.049	DE-SC0019488		366,740
Understanding Rate Constants of Hydrated Electron Reactions	81.049	DE-SC0021114		106,058
Research in Heavy-Ion Nuclear Physics: Studying the initial state of QCD matter	81.049	DE-SC0020914		176,553
Electron transfer in heterostructures based on two-dimensional materials	81.049	DE-SC0020995		192,105
Theoretical Particle Physics in the Data-Driven Era	81.049	DE-SC0021447		65,595
Research in Heavy-Ion Nuclear Physics at CMS	81.049	DE-FG02-96ER40981		727,995
Subtotal for AL No. 81.049				2,050,163
Stationary Direct Methanol Fuel Cells Using Pure Methanol	81.087	DE-EE0008440		201,657
A NOVEL SMART MICROCHIP PROPPANTS TECHNOLOGY FOR PRECISION DIAGNOSTICS OF HYDRAULIC FRACTURE NETWORKS	81.089	DE-FE0031784		590,251
H-2-SALT: Storing Fossil Energy as Hydrogen in Salt Caverns	81.089	DE-FE0032015		194,567
Critical Minerals in Coaly Strata of the Cherokee-Forest City Basin	81.089	DE-FE0032056		224,796
Subtotal for AL No. 81.089				1,009,614
High Resolution Zero Degree Calorimetry	81.000	411321		37,995
Subtotal: Department of Energy- Direct				3,299,429

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Research and development cluster (Continued)				
Department of Energy (Continued)				
<u>Passthrough- AMERICAN INSTITUTE OF CHEMICAL ENGINEERS</u>				
GAS SEPARATION USING FURAN-BASED POLYMER MEMBRANES - PROJECT H22020	81.087	DE-EE0007888-	DE-EE007888-06-09 06-09	\$ 76,843
<u>Passthrough- FERMI NATIONAL ACCELERATOR LABORATORY</u>				
High Luminosity (HL) LHC CMS Detector Upgrade Projects MIP Timing Detector	81.000	678515	DE-AC02- 07CH11359	57,175
<u>Passthrough- HONEYWELL</u>				
MASTER COLLABORATION AGREEMENT	81.000		DE-NA0002839	596,287
<u>Passthrough- JEFFERSON SCIENCE ASSOCIATES LLC</u>				
Services of EIC Fellowship Winner, Alexander "Sasha" Bylinkin, During the Period 02/01/22 - 05/31/22	81.000	Purchase Order 22-D0507	DE-AC0-06OR2317	26,394
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Integrated Anaerobic Membrane Bioreactor (AnMBR)-electro-assisted fermentation platform for total resource recovery from diverse wastewaters	81.086	A21-0320-S001	DE-EE0009504	22,167
<u>Passthrough- LARGO CLEAN ENERGY CORP</u>				
Electrolyte Densification for Shipping (EDS) Process	81.135	26076	cooperative Agreement	19,483
<u>Passthrough- LAWRENCE BERKELEY NATIONAL LAB</u>				
Research During Sabbatical Leave during 2020- 2021 Academic Year	81.000	7561272	DE-AC02- 05CH11231	(11,419)
<u>Passthrough- METROPOLITAN ENERGY CENTER</u>				
Hydrogen Infrastructure Integration Study	81.086	S-AFV14	DE-EE0008262	9,584
<u>Passthrough- NEW MEXICO TECH</u>				
Carbon Utilization and Storage Partnership (CUSP) for the Western USA	81.089	P0019651	DE-FE0031837	99,487
<u>Passthrough- NORTHERN ILLINOIS UNIVERSITY</u>				
5-D dual-readout calorimetry for the Next Generation of HEP Experiments	81.049	G1A627765-1	DE-SC0021123	36,919
<u>Passthrough- SANDIA NATIONAL LABORATORIES</u>				
Molecular Modeling of Fluid Properties at Mineral Interfaces	81.000	2127658		70,899
Waveform diversity and signal processing capabilities for radar and multi-function operation in spectrally congested, contested, and constrained environments	81.000	2237007	DE-NA0003525	103,503
<u>Passthrough- SUMNER COUNTY GOVERNMENT</u>				
Field Testing & Validation - Thermal Energy Storage in Public and Commercial Buildings in Sumner County, Kansas for Energy Savings, Demand reduction and Flexibility.	81.086	SCKS DE-EE- 0009467-1	DE-EE-0009467	57,061
<u>Passthrough- TRIAD NATIONAL SECURITY LLC</u>				
Parallel High-order Curvilinear Mesh Generation Algorithms and Software for Use with Computational Mechanics Simulations	81.000	619744	89233218CNA00000 1	16,837
<u>Passthrough- UNIVERSITY OF CALIFORNIA SANTA CRUZ (UCSC)</u>				
Linking nutrient reactivity and transport in subsurface flowpaths along a terrestrial-estuarine continuum	81.049	A21-0274-S001	DE-SC0021044	7,785

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Research and development cluster (Continued)				
Department of Energy (Continued)				
<u>Passthrough- UNIVERSITY OF MARYLAND - BALTIMORE</u>				
Characterizing the Variation and Covariation of Cloud Microphysical Properties and Implications for Simulation of Subgrid-scale Warm-Rain Processes in Earth System Models	81.049	OFED0010-01	DE-SC0020057	\$ 80,659
<u>Passthrough- UNIVERSITY OF NORTH DAKOTA</u>				
Experimental Study of Oil Swelling with Ethane and Propane	81.000	11203462	Plains CO2 Reduction (PCOR) Partnership	1,494
<u>Passthrough- UNIVERSITY OF TEXAS-AUSTIN</u>				
GWPC-Regional Induced Seismicity Collaborative (RISC)	81.089	UTA18-000016	DE-FE00027702	2,482
Subtotal: Department of Energy- Passthrough				<u>1,273,640</u>
Total: Department of Energy				<u>4,573,069</u>
Department of Health and Human Services				
<u>Direct</u>				
Kansas Serves Native American Families - KSNAP	93.087	90CU0079		445,573
Bridging the Word Gap Research Network	93.110	UA6MC27762		147,459
Bridging the Word Gap Research Network	93.110	1U6DMC421970100		147,404
Subtotal for AL No. 93.110				<u>294,863</u>
Toxicogenomics of metal response in genetically-variable Drosophil populations	93.113	5R01ES029922-03		112,445
Linking genomic, physiological, and behavioral responses using a Drosophila model of heavy metal stress	93.113	K99ES033257		62,453
Subtotal for AL No. 93.113				<u>174,898</u>
Peptide-Polymer Engineering Dentin/Adhesive Interfacial Bond Integrity	93.121	R01DE025476		336,968
Evaluation of a Comprehensive Approach to Address Youth Violence through the Kansas City Youth Violence Prevention Center	93.136	U01CE003375		221,975
Interactive book reading to accelerate word learning by children with SLI	93.173	R01DC012824		290,132
Morphosyntactic Abilities of SLI Probands	93.173	5R01DC001803		95,763
A virtual vocal tract for speech output using non-invasive brain-computer interface	93.173	1R01DC016343-02		370,081
Training Researchers in Language Impairments	93.173	T32DC000052		187,494
Genetic studies of specific language impairment (SLI) using consanguineous families	93.173	R21DC017830		133,410
Developing a caregiver-administered word learning treatment for children with Developmental Language Disorder (DLD)	93.173	1K18DC019615-01		184,113

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Increasing Word Learning Efficiency in Children who are Deaf and Hard of Hearing through Retrieval Practice	93.173	1R21DC02001 7		\$ 19,295
Subtotal for AL No. 93.173				<u>1,280,288</u>
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	6 NU27DD00000 6-05-01		178,883
Care and Safety Practices during the COVID-19 Pandemic in Home-Based Long term Services and Supports	93.226	R01HS028172		341,749
Trauma exposure, emotion regulation and cognitive skills in early childhood: Prospective and longitudinal examination of the mechanisms of adjustment	93.242	R01MH079252		263,266
Motor abnormalities and functional brain mechanisms in autism spectrum disorder	93.242	R01MH112734		333,352
Ecological Momentary Assessment of Unhealthy Exercise and Affect in Eating Disorders	93.242	R36MH120943		34,153
Smart Technology for Anorexia Nervosa Recovery: A Pilot Intervention for the Post-Acute Treatment of Anorexia Nervosa	93.242	1R34MH12702 2-01		187,132
Exploring predictors of response to a peer- mediated communication intervention for minimally verbal preschoolers with ASD	93.242	1R21DC01921 5-01A1		95,526
Assessment of traumatic experiences among young children: Examining measurement factors that influence parent report and predictability	93.242	1F31MH12434 0-01A1		36,275
Lateralization of sensorimotor behavior and cortical-cerebellar networks in autism	93.242	1F31MH12657 2-01A1		21,967
Subtotal for AL No. 93.242				<u>971,671</u>
A cluster-randomized trial of a behavioral activation intervention administered in a college freshman orientation course	93.273	5R01AA027791- 03		250,911
Using Neuroeconomics to Characterize State- Based Increases and Decreases in Alcohol Value	93.273	R01AA027255		354,111
Subtotal for AL No. 93.273				<u>605,022</u>
Neuronal Circuits and Molecular Mechanisms Underlying Early Social Isolation-Potentiated Heroin Seeking	93.279	1K01DA050908		104,785
Biotechnology Resource Center of Biomodular Multi scale Systems CBM2 for Precision Molecular Diagnostics	93.286	P41EB020594- 06		25,556
Biotechnology Resource Center for BioModular Multi-scale Systems (CBM2) for Precision Medicine	93.286	P41EB020584		370,004
Scanning Resonator Microscopy	93.286	R03EB027357		69,654
Subtotal for AL No. 93.286				<u>465,214</u>

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
COVID-19: Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression	93.310	DP5OD023118		\$ 56,761
Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression	93.310	DP5OD023118		46,752
Subtotal for AL No. 93.310				103,513
A resource for the Genetic Analysis of Complex Traits	93.351	5R01OD01097 4-10		52,212
Increased Sensitivity of Minimal Residual Disease Monitoring using Peripheral Blood in Pediatric Patients with Acute Lymphoblastic Leukemia	93.394	R33CA235597		125,579
Nano-Engineered Lab-on-a-Chip for Assessing HuR-Regulated Exosomes for Cancer Monitoring and Targeted Therapy	93.394	R01CA243445		444,879
Subtotal for AL No. 93.394				570,458
Molecular cancer therapy targeting HuR-ARE interaction	93.395	5R01CA19178 5-05		78,884
Promoting Career Design and Development via Telehealth for Rural Adults with Intellectual and Developmental Disabilities	93.433	90IFRE0039		153,855
Using the National Survey on Health and Disability Panel to Document the COVID-19 Pandemic Experiences of Working-Age Americans with Disabilities	93.433	90IFRE0050		42,890
Research and Training Center on Community Living	93.433	90RT5043-04- 01		656,916
Subtotal for AL No. 93.433				853,661
2019-2020: Kansas State Plan for Assistive Technology	93.464	1901KSATSG- 02		2,457
Kansas State Grant for Assistive Technology	93.464	2001KSATG		241,167
Kansas State Plan for Assistive Technology	93.464	2101KSATSG- 02		167,464
ATPH-Expanding the Public Health Workforce within the Disability Network: AT St. Grants	93.464	2201KSATPH- 00		10,809
Subtotal for AL No. 93.464				421,897
Kansas Invests in Families (KInvest)	93.556	90CW1150		69,511
Implementation and Sustainability of Positive-behavior-support in Real Early-care (InSPIRE)	93.575	90YE0207-01- 00		1,222
Head Start Collaboration Office Needs Assessment	93.600			12,980
AOD - Supported Decision Making Across the Lifespan Planning Grant	93.631	90DNDM00030 1		15,984
Kansas Self-determined Transition Employment Partnership (K-STEP): Youth-Led Systems Change for Enhanced Transition and Employment Outcomes	93.631	90DNCE0002- 01-00		83,725

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
State of the States in Developmental Disabilities- On-going Data Collection and Information Dissemination: 2018	93.631	90DNPA0004		\$ 170,731
Subtotal for AL No. 93.631				270,440
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	90DDUC0033		629,404
Coming Together and Moving Forward: Supporting Integrated, Community-Based Transition in Kansas	93.632	90DDUC0084- 01-00		48,534
Supporting People with Disabilities with Vaccine Access during COVID-19 in Kansas	93.632	90DDC50034- 01-00		40,042
Kansas Self-Determined Transition Taskforce: Moving Forward To Enhance Transition Outcomes	93.632	90DDCI0003		73,986
 Expanding the Public Health Workforce in Kansas	 93.632	 90UCPH0004- 01-00		 1,289
Subtotal for AL No. 93.632				793,255
Universal Prevention for Strong and Thriving Families (Family Strong)	93.648	90CT7013-01- 00		158,852
Kansas Strong for Children and Families (Kansas Strong)	93.652	90CO1139		1,527,472
Behavioral Health Workforce Education and Training (BHWET) Program	93.732	1 M01HP313600 100		196,200
Integrated Health Scholars: Partnerships to Advance Practice	93.732	M01HP31360		435,683
Subtotal for AL No. 93.732				631,883
ReACT an Adaptive Mobile Health Intervention for Adolescent Asthma	93.838	1R56HL141394- 01A1		12,780
Weight management in rural health clinics	93.847	R01DK108732		670,162
Tools for neuronal pathway analysis at sub-second and single-cell resolution	93.853	5 R21 NS109659-02		16,162
Structural and functional connectivity of the social decision-making network	93.853	3R01NS11310 4-02S1		332,681
Regulation of growth cone polarity and protrusion in axon guidance	93.853	R03NS114554		48,953
A Novel Pharmacologic Approach to Treat CMT1X	93.853	4R33NS11435 5		323,597
Regulation of directed neuroblast migration by the ECM and MAB-5/Hox	93.853	1R01NS11546 7-01A1		419,687
HTS to identify small molecules to disrupt abnormal huntingtin interactions in HD	93.853	5R01NS08805 9-04		1,199
Wearable real-time functional brain mapping for a non-human primate stroke model	93.853	R01NS118918		503,447
Subtotal for AL No. 93.853				1,645,726

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Assembly/function of the sorting platform of the Shigella type III secretion apparatus	93.855	R01AI123351		\$ 152,315
Generating Native Env Glycosylation in HIV Vaccine Candidates	93.855	5R01AI125093-02		56,050
Improved Informatics for Epitope Mapping by Hydrogen Exchange-Mass Spectrometry	93.855	R21AI135701		(601)
The causes of balancing selection on immunity genes: from populations to molecular interactions.	93.855	1R01AI139154-01		333,891
Vaccines to counter emerging antibiotic resistance	93.855	R01AI138970		917,957
Identification of CYP5122A1 inhibitors as chemical probes for Leishmania biology	93.855	5R01AI139198-03		399,514
Development of a broadly protective subunit vaccine against Pseudomonas aeruginosa	93.855	1R21AI140701-01		4,725
Comprehensive molecular and functional analyses of anti-HIV-1 antibody repertoires	93.855	R21AI143407		103,114
Probing antigen specificity and response of autoimmune B cells in Neuromyelitis Optica	93.855	R21AI144408		(3,682)
Identification of small molecule probes for dissecting the roles of sorting platform components within the type III secretion system	93.855	R121AI146517		40,406
A vaccine specifically targeting T3SS-negative Pseudomonas aeruginosa	93.855	1R21AI164616-01		152,015
Resistance-gene-guided genome mining for novel antifungal compounds	93.855	R21A1156320		192,002
Identifying functional targets of HSV-1 ICP0-directed degradation	93.855	R21AI154302		178,930
Subtotal for AL No. 93.855				2,526,636
Molecular Analysis of Disease Pathways	93.859	5P20GM103638		2,519,485
Integrated Resource for Protein Recognition Studies	93.859	R01GM074255		69,311
Chemical Biology for Infectious Disease	93.859	P20GM113117		158,726
KU Post Baccalaureate Research Education Program (PREP)	93.859	R25GM078441		298,336
500 Nations Bridge Collaboration: Haskell Indian Nations University / U of Kansas	93.859	R25GM060182		91,709
Designed Beta-strands for inhibiting efflux pumps and disabling antibiotic resistance	93.859	1DP2GM128201-01		506,304
Mechanisms of Gamma-Secretase	93.859	R01GM122894		96,699
University of Kansas/Haskell Indian Nations University IRACDA Project	93.859	5K12GM063651-18		588,122
Mass Spectrometry Measurements for Complex PTMS	93.859	5R35GM130354-03		270,848

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Graduate Training at the Biology-Chemistry Interface	93.859	T32GM132061		\$ 375,549
Enhanced Sampling of G-Protein-Coupled Receptor-G Protein Interactions	93.859	R01GM132572		215,121
Genetic dissection and characterization of variation in copper resistance in <i>Drosophila melanogaster</i>	93.859	F32GM133111		19,550
Determining mechanisms of innate immune modulation by ADP-ribosylation	93.859	R35GM138029		362,831
Quorum sensing evolution and function in mixed bacterial communities	93.859	R35GM133572		404,400
Chemical Biology of Infectious Disease	93.859	2P20GM113117		1,700,378
Tethered aza-Wacker Technology for Complex Antibiotic Assembly	93.859	R35GM142499		203,958
Biomaterial technologies for interrogating sex differences in tissue repair and homeostasis	93.859	R35GM143081		211,876
Integrated Resource for Protein Recognition Studies	93.859	2R01GM074255		166,567
MARC at The University of Kansas	93.859	T34GM136453		230,583
Subtotal for AL No. 93.859				8,490,353
Kansas Intellectual and Developmental Disabilities Research Center (KIDDRC)	93.865	5P30HD002528-49REV		(70,152)
The effects of parenting on the development and behavior of FXS adolescents	93.865	5R01HD084563-05		156,214
Kansas Intellectual and Developmental Disabilities Research Center	93.865	3U54HD090216-05		458,331
Individual and family-based approaches to increase physical activity in adolescents with IDD	93.865	R01HD094704		440,148
Behavioral Inflexibility in IDD Outcome Measurement	93.865	7R01HD082127-05		10,620
Validation of an outcome measure of early social-communication for young children with ASD	93.865	R01HD100364		530,612
Examining Biobehavioral Mechanisms of Extreme Eating Behaviors in Young Children with ASD	93.865	F32HD101311		75,832
Young Infants' Detection of Emotion	93.865	1K99HD101500-02		125,827
The Influence of Executive Functioning on Internalizing and Somatic Symptoms in Trauma-Exposed Arab Resettled Refugee Parent-Child Dyads	93.865	1F31HD102193-01		36,283
Gatlinburg Conference on Research in ID/DD	93.865	R13HD102142		8,000
Parent-implemented treatment for repetitive behaviors in children with ASD: Using a novel telehealth approach to increase service access	93.865	1R01HD105036		362,900
Subtotal for AL No. 93.865				2,134,615

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Role of Clusterin in Brain Mitochondria	93.866	1R21AG05596 4-01		\$ 855
ApoE, Energy, and Synaptic V-ATPase	93.866	1R21AG05917 7-01		108,314
Sporadic Alzheimer's Disease: A Bioenergetic Etiology?	93.866	1R01AG06103 8-02		306,477
A Dyadic Approach for a Remote Physical Activity Intervention in Adults with Alzheimer's Disease and their Caregivers	93.866	R01AG061187		869,966
Synapse structural dynamics and memory loss in mouse models of Alzheimers disease	93.866	R01AG064067		540,673
Remediation of elevated delay discounting in mid-life individuals: A stage-II trial	93.866	R01AG048904		231,073
Structure and Function of Gamma-Secretase in Familial Alzheimer's Disease	93.866	1R01AG06698 6-01		525,452
Mitochondria targeting for Alzheimer's Disease	93.866	3R21AG07046 6		166,579
Ghsr1a and Hippocampal Pathology in Alzheimer's Disease	93.866	RAG059753		392,833
Mitochondrial ATP Synthase Dysfunction and Synaptic Stress in Alzheimer's Disease	93.866	RAG053588B		283,095
A Study of Race Differences in Alzheimer's Disease Biomarkers	93.866	RF1AG072760		345,416
mtDNA leakage and STING-dependent microglial innate immune response in Alzheimer's disease	93.866	1R01AG07510 8		81,538
Reshaping ApoE4 and Alzheimer's Brains with ApoE2	93.866	1R01AG07168 2-01A1		112,063
Subtotal for AL No. 93.866				3,964,334
Precisely removing microvessels by photo-mediated ultrasound therapy	93.867	R01EY029489		295,369
Preventing Youth Violence by Addressing Social Determinants Through the KC Youth Violence Prevention Project	93.910	YEPMP170096-		175,544
Adjuvants Discovery Program	93.000	HHSN2722014 00056C		237,406
Curation for the United State Army Corp of Engineers	93.000	W912DQ-14-P- 1037		14
Subtotal for AL No. 93.000				237,420
Subtotal: Health and Human Services- Direct				31,121,068

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- AMIRA LEANING, INC.</u>				
An Innovative Screener for Reading and SLI targeting Kindergarten through 3rd Grade Students	93.173	SRA25272		\$ 80,220
<u>Passthrough- ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES</u>				
Act Early Ambassadors: State or Territorial Liaisons to CDCs, Learn the Signs. Act Early. Program	93.837			3,173
UT2 Autism Intervention Research Network on Physical Health (AIR-P)	93.877	01-21-8840	6UT2MC39440-01	18,560
<u>Passthrough- BBC ENTREPRENEURIAL TRAINING AND CONSULTING LLC</u>				
The Sustainable Heartland Accelerator Regional Partnership (SHARP) Hub	93.859	Supplement	3UT2GM130175-02S1	26,873
<u>Passthrough- BIOFLUIDICA</u>				
Increased sensitivity of minimal residual disease monitoring using peripheral blood in pediatric patients with B type acute lymphoblastic leukemia (B-ALL)	93.394	21518	1R44CA224848-01A1	34,823
<u>Passthrough- BIOMEDICAL RESEARCH INSTITUTE OF NEW MEXICO</u>				
PTPRD ligands for stimulant and opiate use disorders	93.279	358-Uhl-2020	1U01DA047713	89,959
<u>Passthrough- CHILDREN'S MERCY HOSPITALS & CLINICS</u>				
Local Conditions and Child Health	93.865	18-0030	R21HD094106	1,020
<u>Passthrough- CHRISTOPHER & DANA REEVE FOUNDATION</u>				
Accessible Recreation: Playing Electronic Games Independently to Increase Health & Social Connection	93.325		90PRRC0002-01-01	11,604
<u>Passthrough- DESIGNZYME</u>				
Cortisol Biosensor Phase 1	93.859	1R43GM13765 2-01A1 SUB	RGM137652A	16,636
<u>Passthrough- DIGITAL NANOGENETICS LLC</u>				
A novel single molecule sequencing technology for direct, label-less detection of unamplified DNA single molecules	93.172	1R43HG01055 1-01-Sub	1R43HG010551-01	1,993
<u>Passthrough- DREXEL UNIVERSITY</u>				
Prevalence and Profile of Treatment Non-responders in Autism Early Intervention	93.173	800198	1R01DC017181-01A1	29,194
<u>Passthrough- DUKE UNIVERSITY</u>				
HIV-1 vaccine-elicited antibodies target envelope glycans	93.855	A0337643	2R01AI120801-06	46,977
Novel Immunogens to Elicit Broadly Cross-reactive Antibodies that Target the Hemagglutinin Head Trimer Interface.	93.855	A035386	1R01AI155804-01A1	12,619
<u>Passthrough- EVOKE MEDICAL</u>				
Development of an Osteoinductive Spinal Fusion Implant for Enhanced Fusion Rates	93.846	25337	R44AR070088	8,883

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- FAMILIES AND COMMUNITIES RISING, INC.</u>				
2019 National Center for Community-Based Child Abuse Prevention	93.590			\$ 1,718
COVID-19: National Center for Community-Based Child Abuse Prevention	93.590	2021-2022 KU	90CZ0027	10,951
COVID-19: National Center for Community-Based Child Abuse Prevention	93.590	2021-2022 KU	90CZ0027	41,486
2019 National Center for Community-Based Child Abuse Prevention	93.590			37,661
<u>Passthrough- FUTURES WITHOUT VIOLENCE</u>				
A Quality Improvement center on domestic violence in child welfare	93.670	3037	90CA1850-04	(336)
A Quality Improvement center on domestic violence in child welfare	93.670	3037	90CA 1850-04 Addendum #1	202,452
<u>Passthrough- HAFION LLC</u>				
Toward the development of a protein: non-protein macromolecular adjuvants	93.000	75N93019C000	36-Sub	17,820
Production of a Nanoparticle Vaccine to Aid in Smoking Cessation	93.279	R43DA050474-	1R43DA50474-01A1 SUB	35,478
<u>Passthrough- HEALTH RESEARCH, INC.</u>				
Lyme Disease: B Cell Epitope Discovery and Mechanisms of Antibody Protection	93.000	6176-03	75N93019C00040	166,847
<u>Passthrough- HENRY FORD HEALTH SYSTEM</u>				
Reducing Maternal Delay Discounting as a Target Mechanism to Decrease Harsh Parenting and Improve Child Mental Health Outcomes in a Traditionally Underserved Community	93.242	B11239UK	1R34MH123602-01A1	20,777
Improving Delay Discounting to Decrease Harsh Parenting among Parents Receiving Substance Use Treatment in a Low Resource Community	93.279	B11238UK	1R34DA053524-01A1	13,750
<u>Passthrough- HORIZONS MENTAL HEALTH CENTER</u>				
CCBHC Expansion Grants	93.829	24921	H79SM083196	147,838
<u>Passthrough- IDAHO STATE DEPARTMENT OF EDUCATION</u>				
Idaho Advancing Wellness and Resiliency in Education (ID-AWARE)	93.243	217822		15,293
SECTR: Idaho Lives Project (ID-AWARE)	93.243	22-7911	AWARE-SEA	22,839
<u>Passthrough- IOWA DEPARTMENT OF HUMAN SERVICES</u>				
Iowa ROM 2021 - 2026	93.658	ACFS 21-206		68,260
<u>Passthrough- KANSAS CHILD CARE TRAINING OPPORTUNITY</u>				
Infant-Toddler Specialist Network: KCCTO-KITS Partnership	93.575	23358	EES-2021-ITSN-01	43,722
Statewide Infant-Toddler Specialist Network: KCCTO-KITS Collaboration - 2021-2022	93.575	23358		846,704

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- KANSAS CHILDREN'S CABINET AND TRUST FUND</u>				
HHS/ACF Preschool Development Grant Birth through Five	93.434	90TP0078	HHS-2019-ACF-OCC-TP-1579	\$ 894,596
HHS/ACF Preschool Development Grant Birth through Five	93.434	90TP0078-02	90TP0078-02	2,682,841
HHS/ACF Preschool Development Grant Birth through Five	93.434	PO12995	LOC fund 3592-3070-Z01023	105,704
Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP)	93.590	KUCR-CC-CBCAP 2018-2021-C	Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP)	12,890
Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP)	93.590	KUCR-CC-CBCAP-2021-2024-C		192,735
<u>Passthrough- KANSAS DEPARTMENT FOR AGING A</u>				
Assistive Technology Pilot Effort: Addressing Isolation, Health, Nutrition and Safety Concerns Through Technology during the Covid19 Pandemic Assistive Technology for Kansans	93.048		90NWC30044-01-00	46,922
Kansas SED Waiver Assessment & Evaluation Services	93.778			37,878
<u>Passthrough- KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>				
Quality Support Services	93.575	43540	Child Care and Development Block Grant	23,714
Kansas Enrichment Network FY 2021 - 2023	93.575	49429	Child Care and Development Block Grant	62,602
Prevention Grant Evaluation, Families First Prevention Services Act	93.658	PPS-2019-FFPEV		569,260
<u>Passthrough- KANSAS DEPARTMENT OF EDUCATION</u>				
Connected Families, Connected Communities - Every Child Thrives!	93.434	652-19-1989	HHS-2018-ACF-OCC-TP-1379	(152)

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
Medical Entomology Subject Matter Expert for EHC	93.070	48567 UKCR	NUE1EH001416	\$ 26,727
MAVIS Project KCC Perinatal Behavioral Health Activities	93.088	48567 UKCR - Task Order 22052	ASTWH210098	84,868
Kansas ECCS Impact Grant Master Agreement	93.110 93.110	48567 - TO 21007	H25MC00234 5UK3MC322410300	(1,906) 324,929
KSKidsMAP IRIS Expansion	93.110	48567 UKCR, TaskOrder 22045	U4CMC32911	3,229
SEXUAL VIOLENCE PRIMARY PREVENTION COMMUNITY BASED EVALUATION	93.136	TO21031	5NUF2CE002495-03-00	38,657
Evaluation of Programs at KU Sexual Assault Prevention and Education Center	93.136	48567 UKCR, Task Order 21032	5NUF2CE002495-03-00	32,502
CPTED toolkit development	93.136	TO22002		2,724
Kansas Department of Health and Environment Contract for Second Step Evaluation Project	93.136	TO21051	5NUF2CE002495-03-00	14,989
Evaluation of Programs at KU Sexual Assault Prevention and Education Center	93.136	TO 22051	5NUF2CE002495	31
Community Health Access Section Kansas Statewide Farmworker Health Program Evaluation	93.224	TO22008		44,850
REDCap Vaccine Administration Forms	93.268	KDHE-TO-21038	CDCRFA-IP19-1901	5,110
REDCap Vaccine Administration Forms	93.268	KDHE-TO-21038	CDCRFA-IP19-1901	4,916
COVID-19 Vaccination Campaigns for Women Transitioning from Incarceration	93.268		6NH23IP922627-02-06	4,579
Medical Entomology Subject Matter Expert	93.323	48567, Task Order 21043	NU50CK000549	46,532
KDHE Master Agreement - Ripple Effects Mapping - Task Order 22032	93.387	22032	5NU58DP006823	18,442
KDHE Master Agreement-Task Order: Child Care Systems Improvement Team (CC-SIT) Services	93.434	KDHE_TO_21013		862
Backbone Support Child Care Start Up Grants	93.575	KDHE_TO_22034		9,740
Equipment Exchange: Increasing Access to Durable Medical Equipment (DME)	93.778	KDHE2014-1011	Medical Assistance Program	89,910
Assistive Technology for Kansans	93.778	21034		55,080
Medicaid Equipment Exchange	93.778	21035		223,757
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	KDHE2014-010 Amd 7		27,923

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT (Continued)</u>				
Kansas MIECHV Program	93.870	21029	X10MC396870100	\$ 98,069
MIECHV Continuous Quality Improvement FY22	93.870	22050	10MC39687	82,152
Monitoring and Evaluating Implementation of the MCH State Action Plan	93.994	48567 TO 21009, PO 88006	6 B04MC338390103	66,446
CSHCN System of Care Survey	93.994	TO21041		1,449
KDHE Universal Home Visiting Review	93.994	48567 UKCR - Task Order 21044	B04MC40135	39,882
Kansas Maternal and Child Health Services integration - DAISEY Design & Implementation	93.994	48567 - Task Order 22003	Maternal and Child Health Services Block Grant	289,936
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Small Molecule Protease Inhibitors against MERS- CoV	93.855	S18147		67,905
Discovery of Hsp100-selective inhibitors for targeting multiple microbial pathogens	93.855	A00-1041-S001	R01AI141586	31,604
Discovery of Hsp100-selective inhibitors for targeting multiple microbial pathogens	93.855	A00-1041-S002	R01AI141586	108,625
Small molecule inhibitors against 3C-like protease of SARS-CoV-2	93.855	A22-0151-S001	1R01AI161085-01	28,166
Developing Bacterial Glycosyltransferase Inhibitors as Anti-Virulence Drugs	93.855	A21-0198-S001	R56AI153202	183,170
CNAP Pilot Grant Mentoring	93.859	A00-0226-S032	P20GM113109	12
<u>Passthrough- KATHERA BIOSCIENCE INCORPORATED</u>				
Ess1: A pathogenic fungal target for a novel class of broad-spectrum therapeutic agents	93.855	R43A116-SUB	R43AI162468	46,303
<u>Passthrough- KICKAPOO TRIBE</u>				
Kickapoo Tribe in Kansas SAMHSA Circle of Care Program Evaluation	93.243	19940	5H79SM08012-02	1,469
Kickapoo Native Connections Evaluation	93.243	24036	1H79SM082694-01	94,822
Kickapoo Tribe in Kansas Tribal CBCAP	93.590	19343		11,626
Grants to Tribes, Tribal Organizations and Migrant Programs for Community-Based Child Abuse Prevention Programs	93.590	1774-000	90CA1874	8,954
Behavioral Health Integration Initiative	93.654	26414	BH171HS0020	636
Kickapoo Practices for Wellness Evaluation and Performance Plan	93.762	21173	NU58DP006395	36,580
Kickapoo Opioid Response Project	93.788	24254		5,130
<u>Passthrough- LEIDOS BIOMEDICAL RESEARCH INC.</u>				
Development and Application of Antibody Optimization Technologies to Improve Public Health	93.000	18X007	HHSN26120080000 1E	129,793

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- LOUISIANA STATE UNIVERSITY</u>				
Small molecules for perturbing iron homeostasis in bacterial biofilms	93.855	PO0000191609	R01AI169344	\$ 2,129
<u>Passthrough- MCLEAN HOSPITAL</u>				
SCH: INT: Collaborative Research: Context-Adaptive Multimodal Informatics for Psychiatric Discharge Planning	93.242	401780	1R01MH125740-01	10,813
<u>Passthrough- MICHIGAN STATE UNIVERSITY</u>				
Minding A Mid-America Gap: NIDA/NIAAA Epidemiology Research Training for Clinical Researchers and Clinicians in Currently Under-Served Areas	93.279	RC111814B	R25DA051249	3,259
<u>Passthrough- NEW MEXICO CHILDREN, YOUTH & FAMILIES</u>				
New Mexico ROM FY2021	93.556	21-5000-21071	G-1801NMFPS	107,839
<u>Passthrough- NORTHWESTERN UNIVERSITY</u>				
A Family-Genetic Study of Autism and Fragile X Syndrome	93.242	60054681	R01MH091131	14,869
<u>Passthrough- OK DEPARTMENT OF MENTAL HEALTH & SUBSTANCE ABUSE</u>				
Oklahoma Partnership Initiative, Phase 3: Program Evaluation FY2021	93.087			22,384
Oklahoma Partnership Initiative, Phase 3: Program Evaluation	93.087		90CU009301	130,672
<u>Passthrough- OREGON DEPARTMENT OF HUMAN SERVICES</u>				
Oregon ROM Reports System	93.658	133972		89,814
<u>Passthrough- OREGON HEALTH & SCIENCE UNIVERSITY</u>				
Targeting HuR to improve a synthetic lethal therapy for pancreatic cancer	93.395	1019207_KAN SAS	7R01CA212600-05	31,384
<u>Passthrough- PHOTOSONOX, LLC</u>				
Photo-mediated ultrasound therapy for treatment of cutaneous vascular malformations	93.286	23407	R41EB030875	10,290
<u>Passthrough- PRAIRIE BAND</u>				
SAMHSA Garrett Lee Smith Grant Implementation Support Contract: Prairie Band Potawatomi Nation Youth Wellness Services	93.243	PBWC2021-0001	1H79SM082132-01	133,875
<u>Passthrough- RESEARCH INSTITUTE OF FOX CHASE CANCER CENTER</u>				
Robust rational design of chemical tools to inhibit RNA-binding proteins	93.859	15119-04		1,736
<u>Passthrough- SAINT FRANCIS COMMUNITY SERVICES</u>				
KS, NE and TX fathers, couples, and co-parents whose children are involved in the child welfare system will gain the skills and knowledge to be better parents through Saint Francis Fatherhood FIRE	93.086	24372	90ZJ0047-01-00	183,022
<u>Passthrough- SEATTLE CHILDREN'S HOSPITAL</u>				
Structural Genomics Center for Infectious Disease	93.000	12797SUB	HHSN27220170005 9C	271,618
<u>Passthrough- STANFORD UNIVERSITY</u>				
Creating high-resolution, epitope-focused vaccines	93.310	62818678-160634	DP1AI58125	6,739

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIV OF CALIFORNIA - BERKELEY</u>				
STEM Escape: Immersing urban and rural families in biomedical mysteries	93.351	00010137	1R25GM132971-01	\$ 28,164
<u>Passthrough- UNIV OF NORTH CAROLINA AT CHAPEL HILL</u>				
Nanopore Methods for Determining Capsid Viability	93.103	5122517		16,789
<u>Passthrough- UNIVERSITY OF ARKANSAS -MEDICAL SCIENCES</u>				
Data Coordinating and Operations Center (DCOC) for the IDeA States Pediatric Clinical Trials Network - 2020	93.865	54005 - PO # G218700078	2U24OD024957-03	24,200
<u>Passthrough- UNIVERSITY OF CALIFORNIA - LOS ANGELES</u>				
Mapping My Health: A Community Mapping Intervention to Enhance the Self-Determination and Physical Health and Well-Being of Autistic Adolescents	93.000	26133		5,253
Community-Based Self-Determination Intervention to Enhance Goal Setting and Attainment Targeting Employment, Postsecondary Education, Community Participation, and Physical Health Outcomes	93.110		UT2MC39440	16,441
Autism Intervention Research Network on Behavioral Health (AIR-B)	93.877	2000 G YC232	UT339436	203,396
Autism Intervention Research Network on Physical Health (AIR-P)	93.877	1557GZB332	5UT2MC39440-02	14,641
<u>Passthrough- UNIVERSITY OF CALIFORNIA - SAN DIEGO</u>				
Engineering Native E. coli to Detect, Report, and Treat Colorectal Cancer - 1 U01 CA265719-01	93.394	704918	1U01CA265719	50,182
<u>Passthrough- UNIVERSITY OF CENTRAL FLORIDA OF CENTRAL FLORIDA</u>				
The "Disaggregase" Mechanism of Holotoxin Disassembly By Protein Disulfide Isomerase	93.855	22206088-02	1 RO1AI137056-01	1,295
<u>Passthrough- UNIVERSITY OF COLORADO</u>				
The Influence of Evolutionary Landscapes on Protective Antibody Development	93.855	1557541- PO1001139944	R01AI14152	30,091
<u>Passthrough- UNIVERSITY OF DENVER COLORADO SEMINARY</u>				
Prenatal Pathways for Poverty's Influence on the Brains of Two Generations	93.865	SC37547-04-00 / PO168130	R01HD090068	496
<u>Passthrough- UNIVERSITY OF FLORIDA</u>				
Integrative Functional Profiling of Tumor-Derived Extracellular Vesicles	93.394	SUB00002779	R33CA252158	37,840

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF GEORGIA</u>				
USING NEUROECONOMICS TO UNDERSTAND ALCOHOL OVERVALUATION IN ALCOHOL USE DISORDER	93.273	SUB00002433	R01AA025911	\$ 28,794
<u>Passthrough- UNIVERSITY OF ILLINOIS</u>				
All Our Kids Network University of Illinois IRIS Proposal 2020-2021	93.870	100690-17939		1,916
All Our Kids Network University of Illinois IRIS Proposal (Year 4)	93.870	105294-18575	FCSAS04778	24,734
<u>Passthrough- UNIVERSITY OF ILLINOIS - URBANA-CHAMPAIGN</u>				
Rehabilitation Engineering Research Center (RERC) on Technologies to Support Aging-in-Place for People with Long-Term Disabilities	93.433	095457-17810	90REGE0006-01-00	44,484
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Roles for Adenomatous Polyposis Coli in Colon Injury Prevention and Wound Healing	93.000			8,338
Kansas University Affiliated Program	93.110	GR16306	2 T73MC06623-16-00	14,347
Kansas University Affiliated Program	93.110	AWD0000226		1,211
Translating research into school-based practice via small-group, language-focused comprehension intervention	93.173	GR15603	R01DC018823	17,649
RADx-UP: Improving the Response of Local Urban and Rural Communities to Disparities in Covid-19 Testing	93.310	AWD-0001969	3UL1TR002366-04S3	2,005
RADx-UP: Improving the Response of Local Urban and Rural Communities to Disparities in Covid-19 Testing	93.310	AWD-0002421		13,994
Localized mHealth approach to boosting COVID-19 testing and vaccine literacy, access, and uptake among women with criminal legal system involvement in three cities	93.310	GR16641	1U01MD017415-01	68,439
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	2BU0026-Jarmolowicz	5UL1TR002366-04	5,176
Working Memory Training as Pretreatment Adjunct to Smoking Cessation.	93.350	ZPBT0030-Collado	5KL2TR002367	7,463
Frontiers: University of Kansas Clinical and Translational Science Institute - Deciphering Sex Differences in Adolescent Knee Meniscal Injury and Regeneration	93.350	ZPBU0026-Robinson	5UL1TR002366-04	10,579
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	ZPBT0030		7,156
Frontiers: University of Kansas Clinical and Translational Science Institute - Development of Novel Drugs with Biased Signaling for the Treatment of Schizophrenia	93.350	ZPBU0026-Muma	5UL1TR003266-04	9,786

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Frontiers: University of Kansas Clinical and Translational Science Institute - Sensorimotor function in autism spectrum disorders (ASD)	93.350	ZPBT0030	TL1TR002368	\$ 4,382
Investigating approved therapeutics for their ability to inhibit the SARS-CoV-2 ADPribosylhydrolase	93.350	AWD-0001802	5UL1TR002366-04	6,625
FY 2022 - Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	ZPBT0044	5TL1TR002368-05	70,496
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	GR16366	5KL2TR002367-05	89,942
Frontiers: University of Kansas Clinical and Translational Science Institute (Postdoctoral Trainee Aaron Smith)	93.350	ZPBT0044	5TL1TR002368-05	58,931
The safety and efficacy of megestrol as part of an outpatient feeding protocol for children with chronic medical conditions	93.361	0001673	R01HD093933	15,608
Rural Disparities in Pediatric Obesity: The iAmHealthy Intervention	93.361	GR16395	R01NR016255	24,805
iAmHealthy Parents First	93.361	GR16990	1R01NR019810-01A1	797
Sexual Health Empowerment for Jail-Involved Women's Health Literacy and Prevention	93.393	ZAR00080	R01CA181047	16,722
Automated identification and classification of laryngeal diseases using deep neural networks	93.394	AWD0001832	1R03CA253212-01	69,853
Targeting Kinesin Family Member 15 for the Treatment of Cancer	93.395	ZAG00020	R01CA2214545	(1,748)
NCI Cancer Center Support Grant Lead Development & Optimization Shared Resource	93.397	ZPJ00010-Schoenen	P30CA168524	30,979
NCI Cancer Center Support Grant for Biotechnology Innovation and Optimization Center (BIOC)	93.397	ZPJ00030	5P30CA168524-08	24,053
CPS Cancer Prevention and Survivorship Research Program - KUCC Core	93.397	ZPJ00030	P30CA168524	25,110
NCI Cancer Center Support Grant Lead Development & Optimization Share Resource	93.397	GR14141 (ZPJ00030)	P30CA168524	23,597
NCI Cancer Center Support Grant - Cancer Biology Research Program	93.397	ZPJ00030-Neufeld	P30CA168524	26,220
Cancer Center Support Grant	93.397	GR15150	3P30CA168524-09S4	3,286
Colon Cancer Chemoprevention Through Inhibition of Exportin 1 (XPO1)	93.397	GR16220		11,324

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE (Continued)</u>				
KUCC Spring 2021 Pilot Award: Elucidating and disrupting de novo GBM tumor cell-neuron synapses	93.397	GR16221	P30CA168524	\$ 31,278
The Online and Applied System for Intervention Skills (OASIS) - Scaling-up!	93.433	Z1H00040	90DPKT0003-01-00	10,901
Project Eagle: Early Head Start	93.600	AWD-0001966	07CH011678-01-02	2,229
Project Eagle: Early Head Start	93.600	GR16293	07CH011678-02-00	103,021
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Weight management for adults with mobility related disabilities	93.847	ZAD000F0		12,926
Understanding Polycystin-1 Structure-GPCR Function for the Development of New Therapeutic Approaches in ADPKD	93.847	AWD-0001715	3R01DK123590-01S1	33,937
RNA-binding protein HuR in liver pathophysiology and carcinogenesis	93.847	ZAZ00040	R01DK119131	67,168
Metabolomic Markers of Disease Activity and Therapeutic Response in Autoimmune Arthritis	93.859	ZPG0000D		274,859
Molecular Characterization of Hepatic Organic Anion Transporting Polypeptides	93.859	ZAH00000 MOD1		498
KINBRE Campus Coordinator 2020-2021	93.859	GR15882	5P20GM103418-20	11,677
Role of chromosomal protein remodeling function of PICH in chromosome segregation	93.859	GR15867	5P20GM103418-21	37,152
K-INBRE Postdoctoral Award: Linking genomic, physiological, and behavioral responses to copper stress	93.859	GR15844	5P20GM103418-21	3,297
K-INBRE Bridging Award: Molecular identification and precise therapeutic targeting of anti-insulin B cells in Type I diabetes	93.859	GR15848	5P20GM103418-21	29,901
Genetic Examination of Variation in Microbial Pathogen Susceptibility in Caenorhabditis elegans	93.859	GR15850	5P20GM103418-21	36,126
K-INBRE DRPP: Cortical-striatal correlates of restricted and repetitive behaviors in autism spectrum disorder	93.859	GR15893	5P20GM103418-21	101,964
K-INBRE Bioinformatics Core Facility 2021-2022	93.859	GR15827		148,386
K-INBRE Undergraduate Research Office (URO)	93.859	GR15828	5P20GM103418-21	89,176
The Kansas Institute for Precision Medicine	93.859	GR15650	5P20GM130423-03	78,032
The Kansas Institute for Precision Medicine	93.859	GR15653	5P20GM130423-03	3,741

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Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
The Kansas Institute for Precision Medicine	93.859	GR15651	5P20GM130423-03	\$ 103,413
The Kansas Institute for Precision Medicine - Admin. Care	93.859	GR15652	5P20GM130423-03	8,204
K-INBRE Star Trainee Award: Barybin, Woosley, Wright	93.859	GR15856	5P20GM103418-21	25,595
K-INBRE Summer/Translational/Bioinformatic Scholars: Do, Goff, Loo, Robinson, Sandhu, Anoruse-Thomas, Winata, Kauffman	93.859	GR15857	5P20GM103418-21	33,393
KINBRE Core Facilities	93.859	GR15871	5P20GM103418-21	15,150
The Sustainable Heartland Accelerator Regional Partnership (SHARP) Hub - 2020- 2021	93.859	GR15906	5UT2GM1301175-03	20,654
K-INBRE DRPP Mentor Award	93.859	GR15861	5P20GM103418-21	1,672
Teachers and Students for Community- Oriented Research and Education: Linking Industry Partners, Faculty, and Teachers (TSCORE LIFT)	93.859	GR16388		8,060
The Sustainable Heartland Accelerator Regional Partnership (SHARP) Hub	93.859	GR15906- Bergman	(NIH) 5UT2GM130175-03	11,846
K-INBRE Campus Coordinator 2022-2023	93.859			6,293
K-INBRE Bioinformatics Core Facility 2022- 2023	93.859		P20GM103418	5,695
K-INBRE Summer Scholars yr 9	93.859			7,300
KINBRE Star Trainees yr 9	93.859			2,300
Mito Genomics Metabolism	93.866	AWD-0000245	P30AG035982	17,636
Prescribing Smart Aging: Integrating Health Systems with Community-Based Lifestyle Interventions	93.866	GR12141		41,253
Enhanced Mediterranean Diet for Alzheimer's Disease Prevention	93.866	AWD-0001759	1R01AG060157	4,397
Swerdlow Haplo Group J	93.866	GRI14019	1R01AG061194-01	13,649
KU ADC Mitochondrial Genomics and Metabolism Core Supplement	93.866	QS85528M	P30AG035982	2,284
Toward a Simple Model Organism for Familial Alzheimer's Disease	93.866	QS855260	5P30AG035982-10	20,375
KU ADRC Biomarker Core	93.866	AWD-0002190	1P30AG072973	98,862

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Remote Monitoring and Virtual Collaborative Care for Hypertension Control to Prevent Cognitive Decline	93.866	GR15063	R61AG068483	\$ 23,623
Remote Monitoring and Virtual Collaborative Care for Hypertension Control to Prevent Cognitive Decline	93.866	GR16278	4R33AG068483-02	19,288
ADC Developmental Awards: Psychosocial Adjustment and Coping: A Comparison of Racial and Ethnic Minorities and Non-Hispanic White Individuals Living with Dementia	93.866	GR13486 - Jen	P30 AG072973	19,635
<u>Passthrough- UNIVERSITY OF MARYLAND - BALTIMORE</u>				
Adjuvant development of the TLR4 ligand BECC438	93.000	F211956-1 UMB Ref. No.: 3085	HHSN27220180043 C	195,458
Adjuvant development of the TLR4 ligand BECC438	93.000	1903173, UMB Ref. No. 4904	HHSN27229180043 C	189,835
<u>Passthrough- UNIVERSITY OF MINNESOTA</u>				
A high-throughput screen for inhibitors of Plk1-interacting checkpoint helicase (PICH)	93.395	N009209201	1R21CA259718-01A1	8,071
Research Training Center on HCBS Outcome Measurement (RTC/OM)	93.433	A008179301	90RT5039-05-00	17,093
Control of Chromosome Segregation by DNA Topoisomerase II	93.859	N006994001	1R01GM130858-01	43,467
<u>Passthrough- UNIVERSITY OF MISSOURI - COLUMBIA</u>				
The Midwest Biomedical Accelerator Consortium (MBArc) - Screening Diagnostic for COVID-19 using Microfluidic Enrichment and Counting of SARS-CoV-2 Particles	93.286	C00072277-1	3U01HL152410-02S1	149,391
Improve cancer immunotherapy by targeting RNA-binding protein HuR	93.310	C00066571-6	U01HL152410	15,998
ImmunAdvisor: High-Throughput T Cell Receptor Discovery for Affordable Commercial Personalized Cancer Therapies	93.310	C00066571-5	U01HL152410	31,255
Midwest Biomedical Accelerator consortium: MBArc	93.310	C00066571-8	U01HL152410	158
Identification of Small Molecular Inhibitors of Rift Valley Fever Virus Replication	93.855	C00070940-1	7R21AI28377	21,467
<u>Passthrough- UNIVERSITY OF MISSOURI - KANSAS CITY</u>				
Addressing Social Determinants of Health to Improve Diabetes Prevention Program Outcomes Among African Americans	93.847	0099790/00067 449	R01DK124664	10,505

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF NEW MEXICO</u>				
Benzoylation of proteins with synthetic compounds and its prevention with polyamines	93.397	SRA No. 24904		\$ 2,673
<u>Passthrough- UNIVERSITY OF NOTRE DAME</u>				
Chaperone therapeutics for the treatment of DPN	93.853	203645KU	7R01NS075311-06	123,337
<u>Passthrough- UNIVERSITY OF UTAH</u>				
Novel therapeutic strategy for renal fibrosis by targeting RNA-binding protein HuR targeting	93.847	10052956-01	1R01DK123727-01	30,026
<u>Passthrough- UNIVERSITY OF VERMONT</u>				
University of Vermont Center on Tobacco Regulatory Science	93.077	32359SUB5249 1	2U54DA036114-06	10,998
<u>Passthrough- UNIVERSITY OF VIRGINIA</u>				
Targeted Small Molecule Inhibitors for Inv(16) Leukemia	93.395	GB10639_PO_ 2091174		63,556
<u>Passthrough- UNIVERSITY OF WASHINGTON</u>				
Functional Genomics for Chlamydia	93.855	UWSC9070	5R01AI126785-04	40,430
<u>Passthrough- UNIVERSITY OF WISCONSIN-MADISON</u>				
RE-PACT: respiratory exacerbation plans for action and care transitions for children with severe cp	93.838	0000001324	1R34HL153570=01A 1	13,989
<u>Passthrough- WASHINGTON STATE UNIVERSITY</u>				
The Collaborative on Health Reform and Independent Living	93.433	126140 SPC001414	90DP0075-05-00	14,619
Subtotal: Department of Health and Human Services- Passthrough				13,881,420
Total: Department of Health and Human Services				45,002,488
Department of Justice				
<u>Direct</u>				
Macro-Level Influences on Police Decision-Making and Engagement with Victims of Serious Violent Crimes: A Narrative Case Study of Two States	16.560	2019-V3-GX- 0001		26,614
Kansas Law Enforcement Accreditation Program (KLEAP)	16.710	15JCOPS-21- GK-02540- SPPS		24,672
Subtotal: Department of Justice- Direct				51,286
Total: Department of Justice				51,286

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Research and development cluster (Continued)				
Department of Transportation				
<u>Direct</u>				
Master Agreement - Center of Excellence for Unmanned Aircraft Systems FAA Cooperative Agreement	20.109	15-C-UAS-KU		\$ 476,393
Dwight David Eisenhower Transportation Fellowship Program Grants for Research Fellowship for research project assignment on Steel Bridge Bearing Stiffener Detail to Avoid Constraint-Induced Fractures	20.215	693JJ3214522 4		35,499
Improved Detailing in Steel Bridges to Prevent Constraint-induced Fracture	20.000	693JJ321C000 026		8,611
Innovative Practices to Educate Bridge Engineering Practitioners	20.000	693JJ321C000 025		13,707
Subtotal for AL No. 20.000				22,318
Subtotal: Department of Transportation- Direct				534,210
<u>Passthrough- HKA</u>				
ACRP 01-45 - Selecting, Procuring, and Implementing Airport Capital Project Delivery Methods.	20.200	A01-45		57,110
<u>Passthrough- IOWA DEPARTMENT OF TRANSPORTATION</u>				
Phase III Iowa Pore Index: Morphometric Properties of Aggregates	20.205	20-SPR1-003		75,585
<u>Passthrough- IOWA STATE UNIVERSITY</u>				
Robust Wireless Skin Sensor Networks for Long-term Fatigue Crack Monitoring of Bridges	20.205	022355B		61,117
2016 Work Zone and Guardrail Safety Training Grant	20.215	436-17-35C		1,805
<u>Passthrough- KANSAS DEPARTMENT OF TRANSPORTATION</u>				
Self De-Icing LED Signals	20.000	RE-0721-01		9,521
Create Webinar Series Geared Toward Local Emerging Topics and Innovations	20.200	RE-0826-01		16,858
Online Interactive Crash Dashboard	20.200	RE-844-01	Highway Research and Development Program	14,038
Law Enforcement Radar	20.200	RE-0845-01		111
Construction of Low-Cracking High-Performance Bridge Decks Incorporating New Technology - 2019	20.205	RE-0778-01		147,736
Purchase and Implementation of a Learning Management System (LMS)	20.215	RE0805-01 STIC- R080(501)	State Transportation Innovation Council	9,055
Technical Services for the Kansas Rural Transit Assistance Program (RTAP)	20.509	PT-0511-42		208,372

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Research and development cluster (Continued)				
Department of Transportation (Continued)				
<u>Passthrough- OK DEPARTMENT OF TRANSPORTATION</u>				
Bond Behavior of Epoxy Coated Reinforcing Bars in Non-proprietary UHPC	20.200	SPR ITEM 2290 - SPRY- 0010(088)	Highway Research and Development Program	\$ 51,344
<u>Passthrough- TEXAS A&M RESEARCH FOUNDATION</u>				
Placement of PANDA-AP (Pavement Analysis using Nonlinear Damage Approach for Airports)	20.106	M2000379	692M15-19-T- 000027	75,748
<u>Passthrough- THRIVE ALLEN COUNTY</u>				
Thrive Allen county Planning and Research Support	20.000			491
<u>Passthrough- UNIVERSITY OF NEBRASKA - LINCOLN</u>				
University Transportation Centers Open Competition	20.701	25-1121-0005- 151	69A3551747107	189,941
Subtotal: Department of Transportation- Passthrough				918,832
Total: Department of Transportation				1,453,042
Department of the Interior				
<u>Direct</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		4
Bridging the Gap between Locking and ETS in Cascadia using Geodetic Data and Viscoelastic Models: Collaborative Research with the University of Kansas and Indiana University	15.807	G21AP10480- 00		38,624
Community For Data Integration (CDI)	15.808	G20AC00122		1,284
Pennsylvanian stratigraphic nomenclature reconciliation in the midcontinent	15.808	G21AC10704		5,089
Subtotal for AL No. 15.808				6,373
Geologic Mapping in Kansas for FY20	15.810	G20AC00241		117,874
Geologic Mapping in Kansas for FY21	15.810	G21AC10803		448,985
Subtotal for AL No. 15.810				566,859

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Research and development cluster (Continued)				
Department of the Interior (Continued)				
<u>Direct</u>				
Preserving Kansas Geologic Data, Documents, Samples, and Aerial Photographs; and Surveying Critical Mineral Resources, FY 2020	15.814	G20AP00107		\$ 34,293
Preserving Kansas Geologic Data, Documents, Samples, and Aerial Photographs; and Surveying Drill Hole/Core Holdings Relating to Critical Mineral Resources, FY 2021	15.814	G21AP10466-00		66,024
Subtotal for AL No. 15.814				100,317
Maintain existing and expand Kansas-based data services to the NGWMN.	15.980	G19AC00191		15,490
Maintain and expand existing Kansas-based data services to the NGWMN, 2021-2022	15.980	G21AC10419		4,273
Subtotal for AL No. 15.980				19,763
Long Term Property Curation with the University of Kansas	15.000	14OR6018P0054		3,114
Long Term Property Curation with the University of Kansas	15.000	14OR6022P0002		269
Subtotal for AL No. 15.000				3,383
Subtotal: Department of the Interior- Direct				735,323
<u>Passthrough- AMERICAVIEW INC.</u>				
StateView Program Development and Operations for the State of Kansas	15.815	AV18-KS-01	G18AP00077	26,029
<u>Passthrough- EMPORIA STATE UNIVERSITY</u>				
Nutrient cycling and biogeochemical processes in aquatic moist-soil unit habitats at the Flint Hills National Wildlife Refuge	15.654	030700793-21-01	F20AC12120-00	11,592
<u>Passthrough- KANSAS DEPARTMENT OF WILDLIFE AND PARKS</u>				
Geographic Information System (GIS) & Remote Sensing Support Services	15.611			25,703
Geographic Information System (GIS) & Remote Sensing Support Services	15.611	CRA-GISFY22-FY24	F21AF01895-00	122,409
5-year review of Species of Greatest Conservation Need	15.634	25979 KBS_SWAP		20,820
<u>Passthrough- KANSAS STATE HISTORICAL SOCIETY</u>				
2022 Grinter Place State Historic Site (14WY316) Geophysical Survey Contract	15.904		Historic Preservation Fund	268

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Research and development cluster (Continued)				
Department of the Interior (Continued)				
<u>Passthrough- KANSAS WATER RESOURCES INSTITUTE</u>				
Simulating the effects of reservoir management strategies on in-stream sediment load, streambank stability, and water quality	15.805	A00-02310S008	G16AP00054	\$ 6,172
Spatial variability and subsurface controls of groundwater recharge and nutrient mobilization in dry streams	15.805	A00-0231-S009	G16AP00054	(788)
Experimental and Modeling Investigation of Fluid-Fluid and Rock-Fluid Compatibility between Arbuckle and Lansing Kansas City Formations with the Purpose of Produced Water-Exchange Between the Two Form	15.805	A00-0231-S006	G16AP00054	5,678
Experimental and Modeling Investigation of Fluid-Fluid and Rock-Fluid Compatibility between Arbuckle and Lansing Kansas City Formations with the Purpose of Produced Water-Exchange Between the Two Form	15.805	A22-0176-S002	G21AP10634-00	19,423
Benthic Cyanobacterial Mats: A Potential Source of Harmful and Nuisance Compounds to Kansas Streams	15.805	A22-0176-S001		14,470
Spatial variability and subsurface controls of groundwater recharge and nutrient mobilization in dry streams	15.805	A22-0176-S004	G21AP10634-00	4,142
<u>Passthrough- SOUTHWEST KANSAS GROUNDWATER MANAGEMENT, DISTRICT #3</u>				
Water Use and Climate Evaluation Service to Irrigators for Drought Resiliency in Southwest Kansas	15.514	25421		7,416
<u>Passthrough- UNIVERSITY OF CALIFORNIA - DAVIS</u>				
Synchrony of native fish movements: synthesis science towards adaptive water management in the Central Valley	15.512	A19-3215-S001	R19AC000051	24,440
Subtotal: Department of the Interior-Passthrough				287,774
Total: Department of the Interior				1,023,097
Department of the Treasury				
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
COVID 19: SARS-CoV-2 Wastewater Monitoring (CARES Funded)	21.019	BOW1		39,909
Subtotal: Department of the Treasury-Passthrough				39,909
Total: Department of the Treasury				39,909

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Research and development cluster (Continued)				
Veterans Administration				
<u>Direct</u>				
Synthesis and Analysis of CCN5 PEGylated Proteins	64.000			\$ 20,292
Subtotal: Veterans Administration- Direct				<u>20,292</u>
Total: Veterans Administration				<u>20,292</u>
Institute of Museum and Library Services				
<u>Direct</u>				
Advancing Research Collaboration in the Humanities	45.130	CH-50951		425,000
Humanities Challenge Project II	45.130	CH-20811		521,125
Subtotal for AL No. 45.130				<u>946,125</u>
Black Book Interactive Project III	45.149	PW-277575-21		92,418
Gothic Manuscripts, 1320-1390	45.160	FEL-273019-21		29,999
Patriarchy, Politics, and Christine de Pizan's Influence on English Literature, 1400 1478	45.160	FED-273163-21		50,118
The US Army and "the Problem of Race" during the Vietnam Era	45.160	FZ-280282-21		60,000
Subtotal for AL No. 45.160				<u>140,117</u>
Subtotal: Institute of Museum and Library Services- Direct				<u>1,178,660</u>
Total: Institute of Museum and Library Services				<u>1,178,660</u>
National Aeronautics and Space Administration				
<u>Direct</u>				
Airborne Radar Surveys of Land and Sea Ice and Data Processing Using CReSIS Instrumentation to Support IceBridge Observations	43.001	NNX16AH54G		136,437
Controls on Iceberg Distribution Around Greenland	43.001	NNX16AJ90G		68,659
What Shapes the Passive Galaxy Population in Distant Clusters? Understanding the Role of Quenching and Merging with a Spitzer Archival Study	43.001	80NSSC19K05 92		30,127
Particle Astrophysics with the Payload for Ultrahigh Energy Observations (PUEO): A Next Generation Long-duration Balloon-borne Instrument for the Cosmic High Energy Frontier KUCR Co-PI	43.001	80NSSC20K07 76		52,708
AGILE: Advanced enerGetic Ion eLectron tElescope	43.001	80NSSC19K07 14		181,711

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Research and development cluster (Continued)				
National Aeronautics and Space Administration (Continued)				
<u>Direct</u>				
Ultra-high Energy Particle Astrophysics with ANITA-V - University of Kansas Center for Research, Inc. (Co-I)	43.001	80NSSC19K1072		\$ 6,503
A feasibility study of Raman optical activity for the detection and discrimination of chiral biological compounds for planetary science instrumentation	43.001	80NSSC20K1093		90,652
Operational Multichannel Snow Radar for Swath Mapping of Snow Layers on Ice Sheets, Sea Ice, and Land	43.001	80NSSC20K1242		317,301
How Do Undetected AGN Affect Galaxy Evolution?	43.001	80NSSC20K1546		24,804
Probing Quenching in the Cosmic Web using Spatially-Resolved Star Formation Maps from WISE and GALEX	43.001	80NSSC21K0641		4,364
Supplemental funding for Integration of the Snow Radar onto a Long-Endurance Unmanned-Aerial-Vehicle for Thickness Measurements of Snow over Sea-Ice and Land-Ice	43.001	80NSSC21K2072		238,615
Integration of the Snow Radar onto a Long-Endurance Unmanned-Aerial-Vehicle for Thickness Measurements of Snow over Sea-Ice and Land-Ice	43.001	80NSSC20K1077		276,703
Global Satellite-Based Prediction of Drought Evolution	43.001	80NSSC20K1799		80,393
Subtotal for AL No. 43.001				1,508,977
Development of an integrated system for cell analysis and profiling by capillary electrophoresis-mass spectrometry	43.012	80NSSC20K1208		54,067
Subtotal: National Aeronautics and Space Administration- Direct				1,563,044
<u>Passthrough- ALDRIN FAMILY FOUNDATION</u>				
PROJECT IANOS: PAST, PRESENT, FUTURE	43.008	00099511		26,898
<u>Passthrough- AMHERST COLLEGE</u>				
Multipass and tomography enabled data products for subsurface characterization and ice sheet model refinement	43.001	GRT00206-K1	80NSSC21K0753	49,827
<u>Passthrough- CORNELL UNIVERSITY</u>				
Oceans Across Space and Time	43.001			38,363
<u>Passthrough- DARCORPORATION</u>				
Learning Autopilot Systems for Unmanned Aerial Systems	43.000	22952	80NSSC19C0102	65,043
<u>Passthrough- GEORGIA INSTITUTE OF TECHNOLOGY</u>				
Oceans Across Space and Time	43.001	AWD-102551-G3	80NSSC18K1301	9,728

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Research and development cluster (Continued)				
National Aeronautics and Space Administration (Continued)				
<u>Passthrough- JET PROPULSION LAB - CALIFORNIA TECHNOLOGY</u>				
Isotopic Abundances of JWST's Terrestrial Exoplanet Host Stars	43.001	1652699	\$	14,378
Uniform Stellar Abundances of JWST Exoplanet Hosts and TKS^2: TESS-Keck Stellar Spectroscopy	43.001	1659480		11,515
<u>Passthrough- MISSISSIPPI STATE UNIVERSITY</u>				
Spectrum Management Framework for Unmanned Aerial Systems and Traffic Management in BVLOS: From Assessment to Modeling and Analysis	43.000	193700.361561 .01	08078 80NSSC20M0261	110,979
<u>Passthrough- SMITHSONIAN ASTROPHYSICAL OBSERVATORY</u>				
Does Excess Mid-Infrared Emission Reliably Signal an AGN?	43.001	AR0-21012X	NAS8-03060	20,050
<u>Passthrough- SPACE TELESCOPE SCIENCE INSTITUTE</u>				
Atmospheric characterization of two temperate mini-Neptunes formed in the same protoplanetary nebula	43.000	HST-GO- 15814.013-A	HST-GO-15814.013- A	14,495
Exploring the Demographics of Exo-Neptunes: Atmospheric Characterization of a Cool Sub-Neptune from TESS	43.000	HST-GO- 16181.002-A		28,565
GOGREEN Survey: The Relationship between Quenching, Morphological Transformation and Size Growth of Satellite Galaxies	43.000	HST-GO- 15294.012-A	NAS5-26555.	17,779
Obscured CANDELS: Disentangling Obscuration around Supermassive Black Holes in the Distant Universe	43.000	HST-AR- 16137.006-A		10,000
Seeing in 3D: Unlocking the dynamical properties of a canonical exoplanet	43.000	HST-GO- 15813.009-A		7,722
The Atmospheric Diversity of Mini-Neptunes in Multi-planet Systems	43.000	HST-GO- 15333.018-A	NAS5-26555	32,097
<u>Passthrough- UNIVERSITIES SPACE RESEARCH ASSOCIATION (USRA)</u>				
Searching for Torus Emission in Cold Quasars	43.000	SOF 07-0096	NNA17BF53C	36,928
<u>Passthrough- UNIVERSITY OF CALIFORNIA SANTA CRUZ (UCSC)</u>				
Follow the Volatiles: Tracing chemical species relevant to habitability from protoplanetary disks to exoplanet atmospheres	43.001	A21-0406-S003	80NSSC21K0597	14,085
<u>Passthrough- UNIVERSITY OF CHICAGO</u>				
The Payload for Ultrahigh Energy Observations (PUEO): A Long-duration Balloon-borne Instrument for Particle Astrophysics at the Highest Energies	43.001	AWD101921 (SUB00000468)	80NSSC21M0116	3,930
<u>Passthrough- UNIVERSITY OF COLORADO</u>				
Do Habitable Worlds Require Magnetic Fields	43.001	1559320	80NSSC20K0594	30,768
Participation in NASA Mars Atmosphere and Evolution mission	43.000	1546525	NNH1OCCO4C	183,752

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Research and development cluster (Continued)				
National Aeronautics and Space Administration (Continued)				
<u>Passthrough- UNIVERSITY OF MASSACHUSETTS - AMHERST</u>				
Characterizing future changes in glacier melt, snow melt, and regional runoff to inform adaptation decisions in high mountain dependent economies	43.001	20-015928-A-00	80NSSC20K1299	\$ 48,764
<u>Passthrough- UNIVERSITY OF OKLAHOMA</u>				
Analysis of TRMM-GPM Observations to Improve Our Process-Level Understanding and Modeling of Latent Heating in Tropical Easterly Waves	43.008	2019-65	80NSSC19K0720	25,673
<u>Passthrough- UNIVERSITY OF WASHINGTON</u>				
Fjord systems, marine mammals, and subsistence hunting in East Greenland	43.001	UWSC12177	80NSSC20K1361	47,143
<u>Passthrough- WICHITA STATE UNIVERSITY</u>				
Development of Next-Generation Acoustic Liners for Aircraft Engine Noise Reduction	43.008	20-00255		140,419
MICE: A High Power Density Free Piston Engine	43.008	R52123-21-00864	80NSSC19M0042	(464)
National Space Grant Consortium College and Fellowship - Opportunities in NASA STEM FY 2020	43.008	R52545-21-00934	80NSSC10M0109	59,499
Ultrathin, Self-Healable Electrolyte for Solid State Lithium Batteries	43.008	20-02314		128
An Active Learning Framework for Increasing Generalizability of Machine Learning Models	43.008	R52536-20-02738	80NSSC20M0160	1,668
Artificial Intelligence Assisted Spacecraft Trajectory Optimization and Planning	43.008	R52638-21-00689	80NSSC20M0217	41,511
MICE: A High Power Density Free Piston Engine	43.008	R52146-21-00865	80NSSC19M0042	12,621
Appendix C: SMD Earth Sciences Division: Assimilation of Satellite Data for Predicting Cyanohabs in Kansas	43.008	R52930-22-00271	NNH21ZHA002C	71,197
KSC Exploration Systems and Development: Moon to Mars - Gas Separation Processes for High Purity Methane Production	43.008	R52931-22-0272	80NSSC21M0161	61,553
Design and Development of Flexible Self-powered Energy Conversion and Storage Devices	43.008	R52123-21-02186	80NSSC19M0042	34,969
Kansas National Space Grant College and Fellowship Program - Opportunities in NASA STEM FY 2020-2024	43.008	R52545-22-00181	80NSSC20M0109	50,502
Subtotal: National Aeronautics and Space Administration- Passthrough				1,322,085
Total: National Aeronautics and Space Administration				2,885,129

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Research and development cluster (Continued)				
National Science Foundation				
<u>Direct</u>				
WERF: Determining the fate and major removal mechanisms of microplastics in water and resource recovery facilities	47.041	CBET-001707069		\$ 7,772
Non-classical Micromorphic Continuum Model for Granular Microstructure Design	47.041	CMMI-1727433		44,454
CAREER: Pore-Scale Multiphase Mass Transfer in Porous Electrodes	47.041	CBET-1941083		11,799
FEWtures: Innovation Analysis Framework for Resilient Futures, with Application to the Central Arkansas River Basin	47.041	CBET-1856084		556,011
CAREER: Advanced Thermal Management of Lithium-Ion Battery Packs: Combining Physics-Based and Machine Learning Models toward High Thermal Safety	47.041	CMMI-1847651		90,121
Collaborative Research: Development of Atomically Thin Tunnel Barriers for High-Performance Tunnel Junctions	47.041	ECCS-1809293		43,756
CAREER: Quantification of the kinetic energy of particles in complex flows using magnetic particle tracking	47.041	CBET-1944187		90,746
CAREER: Spectrokinetic Studies for Understanding Metal-Support Interactions in Catalytic Oxidation of Ethanol	47.041	CBET-1847655		126,864
Assessing the Influence of Hazard Mitigation Planning on Disaster Recovery	47.041	CMMI-1760183		129,895
RET Site: Exploring Career Opportunities through Water-Themed Engineering Research (ECO-WaTER)	47.041	EEC1801710		129,486
Engineering the Ionic Polymer Phase-Fluid Interface of the PEM Fuel Cell Catalyst Layer for Higher Performance	47.041	CBET-1803058		89,148
Control of Reconfigurable Battery Energy Storage Systems	47.041	CMMI-1763093		56,933
CAREER: Integrated Modeling of Hazard Mitigation Stakeholder Networks for Compassionate, Sustainable Risk Reduction	47.041	CMMI-1751696		68,542
EAGER: Suppressing Lithium Dendrite Growth by Functionally Graded Materials	47.041	CMMI-1840732		8,209
CAREER: Thermo-responsive absorbent with selective absorption for miscible liquids separation	47.041	CBET-1944314		113,754

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Planning Grant: Engineering Research Center for Intelligent Infrastructure for Safe, Efficient and Resilient Mobility (ERC-I2SERM)	47.041	EEC-1840432		\$ 24,549
CAREER: Assessing the Role of Buildings and Organizations in Community Disaster Resilience	47.041	CMMI-1847373		99,528
REU SITE: IDEA Incubator for Porous Materials: Integrating Discovery, Engineering and Art	47.041	EEC-1852308		112,547
PFI-RP: Development of Continuous Process Concepts for Upgrading Lignin in Biorefineries	47.041	IIP-1919267		156,992
Collaborative Research: Development and Application of a Molecular an Process Design Framework for the Separation of Hydrofluorocarbo Mixtures	47.041	CBET-1917480		89,700
EFRI DChEM: Next-generation Low Global Warming Refrigerants	47.041	EFMA-2029354		404,221
Manipulating Mycorrhizal Fungi: Plant Symbionts in Organic Agriculture	47.041	IIP-2016549		114,669
EAGER: High-Energy-Density Storage for Renewable Energy Sources for Environmental Sustainability	47.041	CBET-2024378		24,657
Planning Grant: Engineering Research Center for Environmentally Applied Refrigerant Technology Hub (EARTH)	47.041	2123852		22,401
RAPID: Infrastructural failures and the role of the built environment: The case of the winter storm in Houston, Texas	47.041	CMMI-2131645		61,040
RET Site: Inquiry Driven Engineering Activities using Bioengineering Examples (IDEA-BioE)	47.041	EEC-2055716		8,344
Team Iconium - Environmentally Applied Research Towards Hydrofluorocarbons	47.041	2140448		10,527
Subtotal for AL No. 47.041				2,696,665

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: Mapping and Tracking Conformational Control of Nitric Oxide Synthase Activation	47.049	CHE-1710613		\$ 42,683
REU Site: A Summer Experience for Undergraduates Integrating Research, Education, and Career Development in an Interdisciplinary Environment	47.049	CHE-1560279		16,649
CAREER: First Principles Evaluation of Optical Activity in Solids	47.049	CHE-1650942		116,607
Collaborative research: Modelling and inference for spatiotemporal climate impacts on complex ecosystems	47.049	DMS-1714195		20,534
New algorithms to enable faster, more accurate analysis of hydrogen exchange mass spectrometry data	47.049	CHE-1709176		45,258
INFEWS N/P/H2O: Supramolecular Recognition and Catalysis Targeting Phytate, an Organic Sink for Phosphate in the Human Phosphorus Cycle	47.049	CHE-1710535		102,156
Collaborative Research: The Effect of Filaments on the Gas in Galaxies	47.049	AST-1716690		74,351
Adaptive Data Assimilation for Nonlinear, Non-Gaussian, and High-Dimensional Combustion Problems on Supercomputers	47.049	DMS1723066		7,989
"The Midwest Numerical Analysis Day" Conference	47.049	DMS-1747624		1,750
Dynamic elements: effects of co-solvents on peptide folding pathways	47.049	CHE-1807852		70,301
Ultrafast Dynamics of Highly Excited Molecules in the Condensed Phase	47.049	CHE-1956387		50,151
Design of oligozulene-based organometallics for probing new paradigms in charge delocalization, transport, and storage at the nanoscopic scale	47.049	CHE-1808120		51,776
CAREER: New frontiers for Frobenius, singularity theory, differential operators, and local cohomology	47.049	DMS-1945611		43,483
Removing the Barriers to the Calculation of Activation Energies, Activation Volumes, and Mechanistic Insight for Chemical Dynamics	47.049	CHE-1800559		51,665
Synthesis via Decarboxylative Activation	47.049	CHE-1800147		96,587
Stochastic Analysis and Asymptotic Problems	47.049	DMS-1811181		94,720

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Periodic KPZ Universality	47.049	DMS-1953687		\$ 33,859
Collaborative Research: Extreme Starbursts and Outflows: The Formation of Massive Compact Galaxies	47.049	AST-1814159		4,674
Novel Computational Mathematics for Aperiodic Multilayers	47.049	DMS-1819220		12,915
Geometric and Electronic Structure Contributions to Bond-breaking and Bond- making Reactions of Mid-valent Manganese- Oxygen Complexes	47.049	CHE-1900384		124,801
Broadband Two-Photon Absorption Spectroscopy for High-Repetition Rate Lasers	47.049	CHE-1905334		64,970
Collaborative Research: Beyond the Bulk Flow: Developing More Powerful Analysis Methods to Test Consistency of Large-scale Flows with the Standard Cosmological Model	47.049	AST-1907404		45,803
A study of hypersurfaces in general position inspired by Frobenius	47.049	DMS-1902321		34,595
Dynamics and stability of nonlinear waves	47.049	DMS-1908626		23,621
Particle Physics at the Energy Frontier with the CMS Experiment	47.049	PHY-1913886		(241)
Collaborative Research: WoU-MMA: The Radar Echo Telescope for Cosmic Rays and Neutrinos: Toward a Transformative Technology for Neutrino Detection	47.049	PHY-2012989		70,430
Engineering interfaces for high-performance oxide superconductor nanocomposite films	47.049	DMR-1909292		168,348
CAREER: Probing the High Energy Frontier with the CMS Experiment	47.049	PHY-1945038		104,883
REU Site: A Summer Experience for Undergraduates Integrating Research, Education, and Career Development in an Interdisciplinary Environment	47.049	CHE-1950293		102,942
Large Solutions for Systems of Hyperbolic Conservation Laws and Wave Equations in One and Multiple Space Dimensions	47.049	DMS-2008504		75,255
Collaborative Research: WoU-MMA. Extreme Quantum-Electrodynamic and General-Relativistic Plasma Physics	47.049	PHY-2010109		79,572
Collaborative Research: WoU-MMA: Askaryan Radio Array: The world's forefront neutrino astrophysics program from 100 PeV	47.049	PHY-2012951		56,188
Particle Physics at the Energy Frontier with the CMS Experiment	47.049	PHY-2013007		303,575

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
RAPID: COVID-19 Behavior, perception, and control across geographic and economic gradients	47.049	DMS-2028297		\$ 59,909
Direct Calculation of Activation Energies and Entropies for Chemical Dynamics	47.049	2102656		81,580
Elucidating fundamental factors driving self- assembly with guided interactions in multicomponent enzyme systems using model nanostructured platforms	47.049	2108448		56,092
Apples to Apples: Comparing the Cores of Nearby Galaxies	47.049	2115428		85,921
NSF Accelnet: Inter-American Network of Networks of Quantum Chromo-Dynamics Challenges	47.049	2114669		12,472
Stochastic Calculus of Variations and Limit Theorems	47.049	DMS-2054735		36,214
Isotopic and Elemental Abundances in Stars and Planets	47.049	AST-2108686		69,677
Infinite-Dimensional Dynamical Systems - Stability and Long-time Behavior	47.049	2108285		24,072
Controlling exciton dynamics at interfaces using moire potentials	47.049	2109979		93,433
Modulations of Periodic Waves in Applied Mathematics	47.049	2108749		780
REU SITE: University of Kansas Physics and Astronomy Research Experiences for Undergraduates	47.049	PHY2149897		8,856
Subtotal for AL No. 47.049				2,721,856
CAREER: Improving Understanding of Antarctic Glacier Dynamics Through an Interactive Numerical Flowline Model	47.050	OPP-1255488		745
RCN: Facilitating Indigenous Research, Science and Technology (FIRST)	47.050	PLR-1417767		27,271
Collaborative Research: Stability and Dynamics of Antarctic MarineOutlet Glaciers	47.050	PLR-1543530		76,873
Collaborative Research: Experimental Investigation of Actinide Partitioning in Zircon and its Applications to Geochronology	47.050	EAR-1654637		14,616
INSPIRE: Forging new connections among mammalian evolution, climate change, and tectonics during the Eocene.	47.050	EAR-1543684		131,831

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
EarthCube Data Infrastructure: Collaborative Proposal: Development of an Integrated Data System for the Geological Field Sciences	47.050	ICER-1639734		\$ 15,813
EarthCube Data Infrastructure: Collaborative Proposal: A unified experimental-natural digital data system for analysis of rock microstructures	47.050	ICER-1639738		2
Collaborative Research: Mechanisms governing synoptic-scale, rapid cloud dissipation in subtropical marine low clouds	47.050	AGS-1656237		127,038
Collaborative Research: Topographic controls on Antarctic Ice Sheet grounding line behavior - integrating models and observations	47.050	OPP-1745055		116,559
Collaborative Research: Filling in the Central Himalayan Seismic Gap: A Structural, Neotectonic, and Paleoseismic Investigation of the Western Nepal Fault System	47.050	EAR-1827866		42,741
Collaborative Research: Unearthing Antarctica's role in the Late Cretaceous evolution of flowering plants	47.050	OPP-1953993		8,314
CAREER: UAS-Based Radar Suite for Sounding and Mapping Glaciers	47.050	OPP-1848210		92,419
TESTING MODELS OF CALCITE MICROCRYSTAL DIAGENESIS TO PREDICT MICROPOROSITY DISTRIBUTION IN LIMESTONES	47.050	EAR-1916642		42,101
Collaborative Research: Time of Transformation: integrating the dynamic geologic, climatic and biotic systems of North America during the Early to Late Cretaceous transition	47.050	EAR-1925942		68,997
Collaborative Research: What Created the Southern Tibetan Plateau Drainage Divide? Integrated Tectonic and Geomorphic Investigation of the Gangdese Range and Yarlung River	47.050	EAR-1917706		29,821
Collaborative Research: Dry Rifting In the Albertine-Rhino graben (DRIAR), Uganda	47.050	EAR-2021724		93,111
EarthCube Data Capabilities: Collaborative Proposal: Broadenin Community Use and Adoption of StraboSpot	47.050	ICER-1928389		515,198
CAREER: Continental Paleoenvironmental Responses to Carbon Cycle Perturbations During the mid-Cretaceous Greenhouse	47.050	EAR-1941017		64,231
Collaborative Research: EarthChem & SESAR - Data Infrastructure for Geochemistry and Earth Science Samples Communities	47.050	EAR-1948813		86,913

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: Network Cluster: Using Big Data approaches to assess ecohydrological resilience across scales.	47.050	EAR-2012080		\$ 7,688
Collaborative Research: Patterns, causes, and consequences of synchrony in giant kelp populations	47.050	OCE02023474		98,444
NSF GEO-NERC: Collaborative Research: Impact of the Plio-Pleistocene Transition on Provenance and Sediment Routing from the Himalaya to the Deep-Sea Bengal Fan	47.050	OCE-2026898		135,709
RAPID: Collaborative Research: Digitize a track, save a dinosaur!	47.050	EAR-2035530		5,766
Collaborative Research: How roots, regolith, rock and climate interact over decades to centuries - The R3-C Frontier	47.050	2121639		15,046
Collaborative Research: Deployment of Seafloor Optical Fiber Strainmeters for the Detection of Slow Slip Events	47.050	OCE-2127938		16,243
Collaborative Research: EarthCube Capabilities: Open Polar Radar (OPoRa) Software and Service	47.050	2126503		148,310
Collaborative Research: Catalytic Track: Improving Accuracy and Efficiency of Multicollector Mass Spectrometry	47.050	2149083		6,101
Subtotal for AL No. 47.050				1,987,901
CSR: Small: The Deterministic Memory Approach for Predictable and High Performance Cyber Physical Systems	47.070	CNS-1718880		2,752
AF:Small:Collaborative Research: A Robust Framework for Overcoming the Tangled Mesh Problem	47.070	CCF-1717894		18,350
CAREER: Unifying Heterogeneity of Extreme-Scale Cyberinfrastructures for Higher Productivity and Performance Portability	47.070	OAC-1942973		92,060
CDS&E: Collaborative Research: A Computational Framework for Reconstructing and Visualizing Myocardial Active Stresses	47.070	OAC-1808553		139,631
CSR: Small: Collaborative Research: Real- Time Computing Infrastructure for Integrated CPU-GPU SoC Platforms	47.070			83,590
AF: Small: Collaborative Research: Effective numerical algorithms and software for nonlinear eigenvalue problems	47.070	CCF-1812927		50,867

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: Intelligent Solutions for Navigating Big Data from the Arctic and Antarctic	47.070	IIS-1838236		\$ 75,311
CRII: SaTC: Creating and Managing Structurally-Morphing IT Systems Moving Targets	47.070	CNS-1850406		51,471
Planning IUCRC University of Kansas: Center for High-Assurance Secure Systems and IoT (CHASSI)	47.070	CNS-1916732		11,813
EAGER: SaTC: Early-Stage Interdisciplinary Collaboration: A Sociotechnical Metrics Framework for Network and Security Operations Centers	47.070	CNS-1915824		26,215
Collaborative Research: CSL-MultiAD: Assessing Collaborative STEM Learning through Rich Information Flow based on Multi-Sensor Audio Diarization	47.070	IIS-1918012		45,642
SaTC: CORE: Small: Digital Homelessness in the Heartland: Safeguarding and Enhancing the Experiences of Public Internet Users	47.070	CNS-1946180		229,847
CRII: NeTS: Beyond PHY and Channel Measurements in Millimeter Wave: Towards Low-Overhead and Resilient Multi-hop Networking	47.070	CNS-1948511		54,952
Collaborative Research: CNS Core: Medium: Combating Latency and Disconnectivity in mmWave Networks: From Theory to Implementation	47.070	CNS-1955561		82,177
Collaborative Research: CNS Core: Medium: RUI: Optics without Borders.	47.070	CNS-1956137		92,156
Collaborative Research: CPS: Medium: Real-time Criticality-Aware Neural Networks for Mission-critical Cyber-Physical Systems	47.070	CNS-2038923		28,525
SCC-CIVIC-PG Track A: Connecting Underrepresented Youths with Employment Opportunities	47.070	CNS-2044022		31,202
SCC-CIVIC-FA Track A: Connecting Underrepresented Youths with Employment Opportunities	47.070	2133384		388,295
CAREER: SATC: Bridging the Gap Between Research and Practice: Automation and Metrics in Security Operation Centers	47.070	CNS-2143393		1,240
Subtotal for AL No. 47.070				1,506,096

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Delineating the roles of rising CO2 and temperature on flowering time across pre-industrial through future conditions	47.074	IOS-1457236		\$ 167,089
Collaborative Research: Discovery and analysis in the cradle of speciation theory: biotic surveys of Melanesia's terrestrial vertebrates	47.074	DEB-1557053		169,181
CAREER: Teaching Modern Biodiversity Science from Fieldwork to Phylogeny: Diversity, Systematics, & Evolution of Ecologically Promiscuous Aquatic Beetles	47.074	DEB-1453452		43,956
Collaborative Research: Fire-Fungal-Plant Feedbacks in Pyrogenic Ecosystems	47.074	DEB-1557000		(326)
Bridging observational, experimental and genomic insights on species and speciation through comparative analyses in a new vertebrate model systems	47.074	DEB-1457774		27,820
Collaborative Research: Hierarchical Functioning of River Macrosystems in Temperate Steppes - From Continental to Hydrogeomorphic Patch Scales	47.074	EF1442595		124,814
DIMENSIONS: COLLABORATIVE RESEARCH: The evolution of pollination syndrome diversity in Penstemon	47.074	DEB-1542402		130,419
ABI Sustaining: Supporting Biological Collections Computing with Specify	47.074	DBI-1565098		(22)
doseR: a novel linear modeling framework for dosage compensation analysis	47.074	DBI-1661454		98,625
Digitization TCN: Collaborative Research: The Cretaceous World: Digitizing Fossils to Reconstruct Evolving Ecosystems in the Western Interior Seaway	47.074	DBI-1602067		17,467
Dimensions US-China: Collaborative Research: Microbe eco-evolutionary feedbacks as drivers of plant coexistence, diversity gradients, and overyielding	47.074	DEB-1738041		310,059
Collaborative Research: Ecological Dynamics of the Plant-Arbuscular Mycorrhizal Fungal Mutualism: Contribution to Plant Species turnover and Coexistence	47.074	DEB-1556664		77,063

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
LTREB Renewal: Long-term studies of secondary succession and community assembly in the prairie-forest ecotone of eastern Kansas	47.074	DEB-1655500		\$ 74,066
Collaborative Research: Phylogenetic Systematics and the Evolution of Reproductive Innovation in an Adaptive Radiation of Limnonectes Fanged Frogs	47.074	DEB-1654388		40,147
Collaborative Research: Phylogenetic Systematics and the Evolution of Reproductive Innovation in an Adaptive Radiation of Limnonectes Fanged Frogs	47.074	DEB-1654388		9,022
DISSERTATION RESEARCH: Determining anucleated sperm function in Lepidoptera	47.074	DEB-1701931		1,779
Collaborative Research: Digitization TCN: oVert: Open Exploration of Vertebrate Diversity in 3D	47.074	DBI-1701932		12,897
Collaborative Research: ABI Development: Cultivating a sustainable Open Tree of Life	47.074	DBI-1759838		179,669
CAREER: A Novel Bioinformatic Infrastructure for Metagenome Assembly and Functional Annotation	47.074	DBI-1943291		90,189
Bilateral BBSRC-NSF/BIO: CIBR: Structural modeling of interactome to assess phenotypic effects of genetic variation	47.074	DBI-1917263		321,933
Collaborative Research: Cestode phylogeny and genomics: A spine for the spineless, gutless worms	47.074	DEB-1921411		26,014
Collaborative Research: SG: Clonality and the scope for adaptation in heterogeneous environments	47.074	DEB-1923495		30,953
Collaborative Proposal: MRA: Teleconnections Among Great Plains NEON Sites by Wind and Wing	47.074	DEB-1926596		109,685
CIBR: Collaborative Research: Integrating data communities with BiotaPhy: a computational platform for data-intensive biodiversity research and training	47.074	DBI-1930005		344,992
FSML: Enhancing research support infrastructure at the University of Kansas Field Station	47.074	DBI-1938412		14,500
Chromosomal inversions and gene expression in Mimulus	47.074	MCB-1940785		348,434

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
COLLABORATIVE RESEARCH: LTREB RENEWAL: The role of ecological heterogeneity in a long-term grassland restoration experiment	47.074	DEB-1922915		\$ 48,657
Workshop: Modern methods in microscopy: Elucidating the physical biology of the cell; Summers - 2020 and 2021; Lawrence, Kansas	47.074	MCB-2001870		10,995
Collaborative Proposal: Frameworks: Internet of Samples: Toward an Interdisciplinary Cyberinfrastructure for Material Samples	47.074			138,332
Collaborative Research: Network Cluster: Geomicrobiology and Biogeochemistry in the Critical Zone	47.074	EAR-2012633		94,315
BBSRC-NSF/BIO: A holistic approach to understand drought adaptation in plants, their symbionts, and free-living microbiomes	47.074	IOS-2016351		204,615
How genomic shock triggers transposition during hybrid dysgenesis	47.074	MCB-2025197		190,107
Collaborative Research: CSBR: Ownership Transfer: Living Stocks: International Culture Collection of Arbuscular Mycorrhizal Fungi (INVAM)	47.074	2027458		43,418
CSBR: Rehousing of the Mammal Collection at the University of Kansas Biodiversity Institute	47.074	2100955		426,909
Collaborative Research: Digitization TCN: Extending Anthophilia research through image and trait digitization (Big-Bee)	47.074	2101851		90,626
RESEARCH-PGR: Genetics and mechanisms of microbe-dependent heterosis	47.074	IOS-2033621		59,651
REU SITE: The Stressed Life of Cells A public workflow for predicting peptide binding structures	47.074 47.074	DBI-2051128 2121063		40,110 36,047
CAREER: The genetic mechanisms of sex- ratio meiotic drive and resistance	47.074	MCB-2047052		158,331
MCA: New directions in female aggression research	47.074	IOS-2121849		3,403
EAGER: Toward a tractable genetic model of DNA virus - Drosophila interaction	47.074	MCB-2135167		85,692
Collaborative Research: Phylogeny of Cnidaria - Convergent Evolution of Eyes, Gene Expression, and Cell Types	47.074	2153774		25,103
Subtotal for AL No. 47.074				4,426,736

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Understanding Gender Differences in STEM Academic Careers	47.075	SES1538797		\$ 14,985
A Semantic Grammar of Kiowa - kio	47.075	BCS-1664431		5,331
Examining Native Language Variability and its Effects on Second Language Processing: An Event-Related Potentials Investigation of Referential Dependencies	47.075	BCS-1749143		72,225
Neural Mechanisms for Phonological Alternation with High and Low Productivity	47.075	BCS-1826547		103,846
The Genetic History of the Aleut People	47.075	BCS-1849338		61,452
Learning to pronounce ethnic names as a means of improving inter-ethnic interaction	47.075	BCS-1941684		72,577
Doctoral Dissertation Research: Examining the linguistic cues that guide prediction in the processing of Mandarin relative clauses: An ERP study	47.075			1,496
Collaborative Research: The Effect of State Disinvestment in Higher Education on Research Quality and Returns to Scale in Science Funding	47.075	SMA-1854849		37,845
Doctoral Dissertation Research: Lexical Acoustics	47.075	BCS-1918404		3,173
Conferences to Strengthen the Kansas Health Economics Community	47.075	SES-1941552		2,611
Doctoral Dissertation Research: Do farmers know better? Exploring the politics of on-farm innovation, environmental change, and rural livelihoods in the US hop-growing industry	47.075	SES-1946941		1,792
Enhancing the Perception and Recognition of Spoken Words in a Second Language: A Cue-Weighting Approach	47.075	BLS-2016750		72,942
Collaborative Research: Assessing the Impact of Lead Agency Cross-Functional Authority on City Sustainability Outcomes	47.075	SES-2021044		98,954
RAPID: Understanding the Experiences of Public Internet Users during the Novel Corona Virus Pandemic	47.075	SES-2037575		31,169
Collaborative Research: Dealing with Disruption: Investigating the Micro-level Underpinnings of City Response to the Climate Crisis	47.075	SES-2049917		68,778

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Investigating the genetic history of the Central and Southern Plains	47.075	2051397		\$ 46,993
Speech perception in younger and older adults: Cue-weighting and contextual information	47.075	2141302		5,410
Subtotal for AL No. 47.075				<u>701,579</u>
The Evidence Games: Collaborative Games Engaging Middle School Students in the Evaluation of Scientific Evidence	47.076	DRL-1019842		(2,047)
Deep Roots: Wide-Spread implementation of community-driven evidence-based Pedagogy	47.076	DUE-1525775		51,299
CyberCorps: New Scholarships for Service (SFS) Program at the University of Kansas - Jayhawk SFS	47.076	DGE-1565570		345,453
Collaborative Research: Transforming the Evaluation of Teaching: A Study of Institutional Change to Advance STEM Undergraduate Education	47.076	DUE-1726087		39,908
Collaborative Research: Technology Education for Women in Transition: Broadening Participation Through Innovations	47.076	DRL-1907002		365,469
Collaborative Research: Cool Science: Art as a Vehicle for Intergenerational Learning	47.076	DRL-1906810		275,022
NRT-HDR: The Internet of Catalysis - Harnessing Data Science for Catalyst Design	47.076	DGE-1922649		430,083
Graduate Research Fellowship Program	47.076	DGE-1940699		322,667
RAPID: Collaborative Research: Electronic Mentoring to Address Challenges in Engineering Graduate Programs During the COVID-19 Pandemic	47.076	DGE-2031069		21,302
Collaborative Research: SaTC: EDU: Hardware Security Education for All through Seamless Extension of Existing Curriculum	47.076	2114157		1,886
Subtotal for AL No. 47.076				<u>1,851,042</u>
Collaborative Research: EAGER: A Dual-Band Radar for Measuring Internal Ice Deformation: a Multipass Ice-Penetrating Radar Experiment on Thwaites Glacier and the McMurdo Ice Shelf	47.078	OPP-2027615		139,433
EAGER: Extending Greenland glacier observations using newly-discovered aerial photographs	47.078	2135018		92,324
Subtotal for AL No. 47.078				<u>231,757</u>

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
RII Track-2 FEC: Improving Water Management, Treatment and Recovery in Oil and Gas Production	47.083	OIA-1632892		\$ 43,316
RII Track-1: Microbiomes of Aquatic, Plant and Soil Systems (MAPS) mediating sustainability: An observational and experimental network across Kansas	47.083	OIA-1656006		3,876,670
RII Track-4: Pore-Scale Transport Phenomena in Li-O2 Battery Electrodes Characterized by Nano-Tomography	47.083	OIA1833048		58,257
RII Track-4: Pulse Radiolysis Studies of H2 Generation by [Cp*Rh] Complexes to Characterize Design Rules for Improved Catalysts	47.083	OIA-1833087		28,134
RII Track-2 FEC: Marshalling Diverse Big Data Streams to Understand Risk of Tick-borne Diseases in the Great Plains	47.083	1920946		734,039
RII Track-1: Adaptive and Resilient Infrastructures driven by Social Equity (ARISE)	47.083	OIA-2148878		356
RII Track-2 FEC - Advanced Manufacturing of Renewable and Recyclable Polymers	47.083	2119754		164,271
RII Track-2 FEC: Aquatic Intermittency effects on Microbiomes i Streams (AIMS)	47.083	OIA-2019603		1,661,581
Subtotal for AL No. 47.083				<u>6,566,624</u>
Modeling the dynamics of belief formation: Towards a computational understanding of the timing and accuracy of probability judgments	47.000	SES-212112		99,623
SCH: INT: Collaborative Research: Privacy-Preserving Federated Transfer Learning for Early Acute Kidney Injury Risk Prediction	47.000	IIS-2014552		93,260
Subtotal for AL No. 47.000				<u>192,883</u>
Subtotal: National Science Foundation- Direct				<u>22,883,139</u>

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Passthrough- AMERICAN PHYSICAL SOCIETY</u>				
PhysTEC: Building a Solution to the National Physics Teacher Shortage	47.049	PT-002-2019	PHY-1707990	\$ 1,564
<u>Passthrough- AVIUM LLC</u>				
SBIR Phase II: Dual Element Matrix (DEM) Water Electrolyzer	47.041	23926	1951216	64,246
<u>Passthrough- BATTELLE MEMORIAL INSTITUTE</u>				
Reaeration Analyses: SF6, Chloride, Bromide	47.074	US001- 0000731738		58,052
Dissolved Gas Analyses: CH4, CO2, N20	47.000	US001- 0000732763	NEON Cooperative Agreement	45,705
Mosquito Taxonomic Identification	47.000	US001- 0000732907	NEON Cooperative Agreement	75,938
<u>Passthrough- BAYLOR UNIVERSITY</u>				
SII Planning: Developing a National Spectrum Innovation Initiative (SII) Center for Adaptive and Reconfigurable Wireless Technology	47.070	1001025-04		1,307
<u>Passthrough- CARNEGIE MELLON UNIVERSITY</u>				
Dyadic Behavior Informatics for Psychotherapy Process and Outcome	47.075	1122586- 438046	IIS-1722822	17,116
<u>Passthrough- CAST, INC.</u>				
Accelerating Higher Order Thinking and STEM Content Learning Among Students w/Disabilities	47.076	UK090118-21		25,584
<u>Passthrough- COLUMBIA UNIVERSITY</u>				
Participation of Dustin T. Harper on IODP Expedition 396	47.050	113(G009393- 04)		20,411
Collaborative Research: Frameworks: Internet of Samples: Toward an Interdisciplinary Cyberinfrastructure for Material Samples	47.070	1(GG015554- 01)	OAC-2004839	60,080
<u>Passthrough- CORNELL UNIVERSITY</u>				
U.S. CMS Upgrades for the HL-LHC	47.049	79433-20679	PHY-1946735	53,591
<u>Passthrough- COUNCIL FOR OPPORTUNITY IN EDUCATION</u>				
ITEST Strategies proposal - iStrongG (Inclusive, Strong and Green): A student- centered systems thinking-based curriculum.	47.076	1759163-3		22,254
<u>Passthrough- DONALD DANFORTH PLANT SCIENCE CENTER</u>				
BII: New Roots for Restoration: integrating plant traits, communities, and the soil ecosphere to advance restoration of natural and agricultural systems	47.074	24409-K	2120153	223,749

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Passthrough- DUKE UNIVERSITY</u>				
Human and Natural Forcings of Critical Zone Dynamics and Evolution at the Calhoun Critical Zone Observatory	47.050	14-NSF-1078	EAR-1331846	\$ 7,017
<u>Passthrough- GEORGIA STATE UNIVERSITY</u>				
Smart and Safe Prescribed Burning for Rangeland and Farmland Communities	47.070	SP00015053-01	CNS-2125361	17,074
<u>Passthrough- HISTORY COLORADO</u>				
A Study in the Integration of Western Knowledge and Native American Knowledge Bases	47.076			4,797
<u>Passthrough- INDIANA UNIVERSITY</u>				
CIF21 DIBBs: Middleware and High Performance Analytics Libraries for Scalable Data Science	47.070	8743-UK	1443054 Amd 7,8 and NCE	5,049
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Processes Influencing Community Assembly During Tallgrass Prairie Restoration	47.074	A00-0071-S008-A01	DEB-144084	8,693
LTER: Manipulating drivers to assess grassland resilience	47.074	A21-0332-S003	DEB-2025849	32,113
GP-IN: SOARING: Sharing Opportunities, Approaches, and Resources in New Geo-teaching	47.078	A21-0163-S001	OPP-2022964	18,085
<u>Passthrough- KANSAS STATE UNIVERSITY SPA</u>				
Konza Prairie LTER: Grassland Dynamics and Long-Term Trajectories of Change	47.074	S15103	DEB-1440484	11,168
Konza Prairie LTER: Long Term Research on Grassland Dynamics and Global Change	47.074	S15099.02	DEB-1440484	3,461
<u>Passthrough- NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY</u>				
Digitization PEN: Collaborative Research: The Cretaceous World Connecting the Cretaceous Seas of North America	47.074	1902262	1902262	3,664
<u>Passthrough- NEW YORK UNIVERSITY</u>				
Melting at Thwaites grounding zone and its control on sea level (THWAITES-MELT)	47.050	F0691-02	Melting at Thwaites grounding zone and its control on sea level (THWAITES-MELT)	370

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Passthrough- NORTHERN ARIZONA UNIVERSITY</u>				
CNH-L: Scale-dependent feedbacks among protected areas and surrounding socio-ecological systems	47.074	1003088-01		\$ 2,805
<u>Passthrough- OCCIDENTAL COLLEGE</u>				
Modeling plant-virus-vector coinfections and the effect of disease control strategies on plant yield	47.074	OXY-CURM0054		1,200
Modeling plant-virus-vector coinfections and the effect of disease control strategies on plant yield	47.074	OXY-CURM0055		964
<u>Passthrough- OKLAHOMA STATE UNIVERSITY</u>				
Digitization TCN: Collaborative Research: Earth and sky: digitizing the vascular flora of the south-central United States	47.074	1-578050-KU	DBI-1902085	11,897
<u>Passthrough- OREGON STATE UNIVERSITY</u>				
Center for OLDest Ice EXploration (COLDEX)	47.078	S2306L-I	OPP-2019719	252,087
<u>Passthrough- PENNSYLVANIA STATE UNIVERSITY</u>				
NSFPLR-NERC: Ground Geophysics Survey of Thwaites Glacier	47.050	5860-UKCR-NSF-8934	OPP-1738934	42,758
<u>Passthrough- PRINCETON UNIVERSITY</u>				
U.S. CMS Operations at the Large Hadron Collider	47.049	SUB0000197		4,584
<u>Passthrough- SOUTH DAKOTA SCHOOL OF MINES</u>				
RII Track-2 FEC: The IceCube EPSCoR Initiative (IEI) - IceCube and the Data Revolution	47.083	SDSMT- KU 21- OIA-2019597 05		82,894
<u>Passthrough- UNIVERSITY OF IOWA</u>				
RII Track-2 FEC: Critical Resource Availability for the Future of the Renewable Energy Industry: Critical Minerals and Ground Water Resources in Iowa and Kansas	47.083	S02918-01	OIA-2119551	758,915
<u>Passthrough- UNIVERSITY OF NEBRASKA - LINCOLN</u>				
U.S. CMS Operations at the Large Hadron Collider	47.049	25-0521-0244-006	PHY-2121686	9,790
<u>Passthrough- UNIVERSITY OF NEW MEXICO</u>				
SII Planning: Spectrum-Agile Cognitive Communications for Terrestrial and Space Applications	47.049	271699-87R8	2037864	30,144
<u>Passthrough- UNIVERSITY OF NORTHERN COLORADO</u>				
Collaborative Research: Developing a Next Generation Concept Inventory using Constructed Response for evaluating student knowledge of complex FEW systems in environmental education	47.076	000021-00001A.008.00	4040-0001	6,613
<u>Passthrough- UNIVERSITY OF NOTRE DAME</u>				
QuarkNet center at the University of Kansas	47.049		PHY-1806631	200

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Passthrough- UNIVERSITY OF THE VIRGIN ISLANDS</u>				
Ridge to Reef Processes and Interdependent Drivers of Small Island Resilience	47.083	1946412-02	OIA-1946412	\$ 16,678
<u>Passthrough- VANDERBILT UNIVERSITY</u>				
Collaborative Research: SHF: Small: Learning Fault Tolerance at Scale	47.070	OSA0000080		12,067
<u>Passthrough- WASHINGTON UNIVERSITY SAINT LOUIS</u>				
Dimensions US-South Africa: Convergent evolution across time and space: Evolutionary diversity and contemporary adaptation in New and Old World lizards	47.074	WU-21-315	DEB-1927194	16,623
Subtotal: National Science Foundation- Passthrough				<u>2,031,307</u>
Total: National Science Foundation				<u>24,914,446</u>
Total Research and Development Cluster				<u>103,384,635</u>
TRIO				
Department of Education				
<u>Direct</u>				
University of Kansas TRIO Student Support Services - SES	84.042	P042A160846		63,400
KU Student Support Services Science, Technology, Math, Engineering and Health Sciences (SSS STEM)	84.042	P042A201664		257,937
University of Kansas Student Support Services (KU SSS)	84.042	P042A211632		265,248
Subtotal for AL No. 84.042				<u>586,585</u>
University of Kansas Talent Search (KUTS)	84.044	P044A160170		263,571
University of Kansas Talent Search	84.044	P044A210069		278,055
Subtotal for AL No. 84.044				<u>541,626</u>
University of Kansas Math & Science Center	84.047	P047M170310		356,879
University of Kansas Upward Bound Math & Science (KU-UBMS)	84.047	P047M170490		332,875
University of Kansas Upward Bound Program	84.047	P047A180353		443,822
The University of Kansas Veterans Upward Bound Program	84.047	P047V180027		245,402
Subtotal for AL No. 84.047				<u>1,378,978</u>
University of Kansas EOC	84.066	P066A160048		95,596
University of Kansas EOC - Leavenworth and Franklin County	84.066	P066A160079		61,762
University of Kansas Educational Opportunity Center (KU-EOC)	84.066	P066A210033		245,185
University of Kansas EOC Leavenworth-Franklin County (KU-EOC-LV-FR)	84.066	P066A210117		194,842
Subtotal for AL No. 84.066				<u>597,385</u>
McNair Scholars Program	84.217	P217A170081		330,879
Subtotal: Department of Education- Direct				<u>3,435,453</u>
Total: Department of Education				<u>3,435,453</u>
Total TRIO Cluster				<u>3,435,453</u>

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Maternal Cluster				
Department of Health and Human Services				
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
Maternal, Infant and Early Childhood Home Visiting, The Institute Learning Management System	93.870	TO 21018, contract 48567 UKCR	6 X10MC335810101	\$ 184,372
Maternal, Infant and Early Childhood Home Visiting DAISEY Date Management for FY20	93.870	21019, contract 48567 UKCR	1X10MC396870100	104,504
KDHE Master Agreement: Task Order 21002: Maternal, Infant and Early Childhood Home Visiting FY 19 Evaluation	93.870	KDHE_TO_21002		95,702
Maternal, Infant and Early Childhood Home Visiting DAISEY Date Management for FY21	93.870	22021		159,589
Kansas MIECHV Learning Management System FY21	93.870	22028		38,269
MIECHV Coordinated State Evaluation FY21 MA 48567 UKCR	93.870	TO 22036	X10MC43582	83,195
<u>Passthrough-STATE OF NEBRASKA DEPARTMENT OF HEALTH & HUMAN SERVICES</u>				
Home Visiting Data Collection and Management - Nebraska 2015-2016	93.505			(118)
Home Visiting Data Collection and Management - Nebraska	93.870	88265-O4		146,816
<u>Passthrough- WISCONSIN DEPARTMENT OF CHILDREN & FAMILIES</u>				
Wisconsin Family Foundations Home Visiting shared Measurements System	93.870	437003-C20-0001518-R01-01	Maternal, Infant and Early Childhood Home Visiting Grant Program	145,173
2022: Wisconsin Family Foundations Home Visiting shared Measurements System	93.870	437003-C20-0001518-R02-01		86,128
Subtotal: Department of Health and Human Services- Passthrough				1,043,630
Total: Department of Health and Human Services				1,043,630
Total Maternal Cluster				1,043,630
Other Programs				
Department of Defense				
<u>Direct</u>				
University of Kansas IC Center for Academic Excellence (KU-ICCAE)	12.598	2020-20061700010		256,350
Army Educational Outreach Program (UNITE)	12.630			5,163
2020 GenCyber University of Kansas	12.903	H98230-20-1-0269		99,770
Subtotal: Department of Defense- Direct				361,283

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Other Programs (Continued)				
Department of Defense (Continued)				
<u>Passthrough- ARMY EDUCATIONAL OUTREACH PROGRAM</u>				
Army Educational Outreach Program (UNITE)	12.630			\$ 16,489
<u>Passthrough- INSTITUTE OF INTERNATIONAL EDUCATION</u>				
Master Agreement - KU Project GO Center: Attaining Intercultural Understanding through Critical Language Learning for 21st Century Officers	12.357	PGO1801-KU- 10	H98210-18-2-002	576,727
Cost Reimbursement Umbrella Agreement for Prime Award Number H98210-18-2-0002	12.357	PGO1801-KU- 10	H98210-18-2-0002	593,521
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Learning, Exploration, and Application for Prospective Engineering Students (LEAPES)	12.006	A22-0220-S001	HQ00342110017	73,688
Subtotal: Department of Defense- Passthrough				1,260,425
Total: Department of Defense				1,621,708
 Department of Agriculture				
<u>Passthrough- KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>				
SNAP Process and Technology Improvement Grant	10.580			184,503
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Kansas-Missouri Nutrition Incentive Collaborative	10.331	GR16154	Food Insecurity Nutrition Incentive Program	14,305
Subtotal: Department of Agriculture- Passthrough				198,808
Total: Department of Agriculture				198,808
 Department of the Interior				
<u>Passthrough- KANSAS STATE HISTORICAL SOCIETY</u>				
GIS-based Predictive Model for Surface and Buried Archeological Sites in Kansas	15.904	P19AF00217- 10031	P19AF00217	12,814
<u>Passthrough- MICCOSUKEE INDIAN SCHOOL</u>				
DLM - Operational/Testing	15.000	44679		2,087
Subtotal: Department of the Interior- Passthrough				14,901
Total: Department of the Interior				14,901

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Department of Justice				
<u>Direct</u>				
U.S.P. Leavenworth Legal Assistance Program	16.000	15B40819D000 00033		\$ 55,335
Subtotal: Department of Justice- Direct				55,335
<u>Passthrough- IDAHO, STATE OF</u>				
Idaho Safe Schools, Safe Students	16.839	HC204400		293,955
<u>Passthrough- KANSAS DEPARTMENT OF CORRECTIONS</u>				
Crawford County Juvenile Justice Community Engagement Initiative	16.540	PO26684	2018-JF-FX-0021	203,745
Subtotal: Department of Justice- Passthrough				497,700
Total: Department of Justice				553,035
 Department of State				
<u>Direct</u>				
Study of the U. S. Institutes for Student Leaders on Womens Leadership	19.009	S-ECAGD-18- CA-1040		547,444
Subtotal: Department of State- Direct				547,444
<u>Passthrough- INSTITUTE OF INTERNATIONAL EDUCATION</u>				
2021 Eight-Week Humbert H. Humphery Fellowship Pre-Academic Training Program	19.010	3000213918	S-ECAGD-21-CA- 3001, S-ECAGD-CA- 20-0002	276,972
2022 Eight-Week Humbert H. Humphery Fellowship Pre-Academic Training Program	19.000	300253385		6,838
Subtotal: Department of State- Passthrough				283,810
Total: Department of State				831,254
 Department of Transportation				
<u>Passthrough- KANSAS DEPARTMENT OF TRANSPORTATION</u>				
Kansas Innovation Summit	20.200			16,918
Technology Transfer Program - FY 2020 Local Technical Assistance Program (LTAP)	20.215		Highway Training and Education Program	3,509
2021 Local Technical Assistance Program (LTAP)	20.215	RE-0255-21- LTAP-R025- 521	RE-0255-21-LTAP- R025-521	298,163

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Department of Transportation (Continued)				
<u>Passthrough- KANSAS DEPARTMENT OF TRANSPORTATION (Continued)</u>				
2022 Local Technical Assistance Program (LTAP)	20.215	RE-0255-22-LTAP-R025-522		\$ 232,935
Technical Services for the Kansas Rural Transit Assistance Program (RTAP) – FY 2021	20.509	PT-0511-41		9,729
Transportation Safety Conferences 2013-2022	20.600	SA-0943-21		83,216
Data Access and Support Center (DASC) GIS Mapping Integration	20.616	TR-2114-21	18X920405cKS15	46,034
<u>Passthrough- KANSAS DIVISION OF EMERGENCY MANAGEMENT</u>				
Trainings to Kansas Counties through Kansas University Fire and Rescue Training Institute during the federal fiscal year 2019-2020	20.703		693JK31940016HM EP	6,505
Trainings to Kansas Counties through Kansas University Fire and Rescue Training Institute during the federal fiscal year 2020-2021	20.703		693JK31940016HM EP	7,116
<u>Passthrough- KANSAS STATE UNIVERSITY SPA</u>				
Traffic Assistance Services for Kansas (TASK) Program (FY 2022-2023)	20.215	A21-0571-S001		74,407
Subtotal: Department of Transportation- Passthrough				<u>778,532</u>
Total: Department of Transportation				<u>778,532</u>
 Department of the Treasury				
<u>Direct</u>				
VITA Grant Project	21.009	21VITA0165		27,122
VITA Grant Project	21.009	22VITA0218		5,408
Subtotal for AL No. 21.009				<u>32,530</u>
COVID-19: Radio Community Service Grant (CSG)	21.019			190,545
Subtotal: Department of the Treasury- Direct				<u>223,075</u>
<u>Passthrough- DOUGLAS COUNTY, KANSAS</u>				
Douglas County, KS and City of Lawrence, KS Homelessness Needs Assessment	21.027	SRA25579		71,616
 <u>Passthrough- KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>				
COVID-19: DCF ARPA Planning and Support	21.027		ARPA funds	431,803
 <u>Passthrough- WYANDOTTE ECONOMIC DEVELOPMENT COUNCIL</u>				
WyCo Works	21.019	24257		3,515
Subtotal: Department of the Treasury- Passthrough				<u>506,934</u>
Total: Department of the Treasury				<u>730,009</u>

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
National Aeronautics and Space Administration				
<u>Passthrough- WICHITA STATE UNIVERSITY</u>				
National Space Grant College and Fellowship Program Training Grant FY 2019-2020	43.008	9702-7-3-16241	NNX15AJ97H	\$ (415)
Subtotal: National Aeronautics and Space Administration- Passthrough				<u>(415)</u>
Total: National Aeronautics and Space Administration				<u>(415)</u>
Federal Communications Commission				
<u>Direct</u>				
Kansas Deaf Blind Equipment Distribution-- Assistive Technology for Kansans	32.000	DA 19-557		131,886
Subtotal: Federal Communications Commission- Direct				<u>131,886</u>
Total: Federal Communications Commission				<u>131,886</u>
Institute of Museum and Library Services				
<u>Direct</u>				
Healing, Knowing, Seeing the Body - Robleto	45.024	1856869-44-20		1,337
KU Indigenous Culture Festival	45.024	1858768-55-20		547
Boarders that Define and Divide	45.024	1862250-54-20		37,320
To support research and planning for the exhibition Bold Women: Changing the World and Art	45.024	1865585-44-21		7,722
Returning: Community-based Art Experience Involving Women in Reentry and the Public	45.024	1865778-41-21		13,400
KU Powwow & Indigenous Cultures Festival (ICF)	45.024	1884573-55-21		30,246
Subtotal for AL No. 45.024				<u>90,571</u>
To support infrastructure improvements to the Spencer Museum of Art's collection storage, freight elevator, and galleries.	45.130	CHA-261952-19		\$ 239,229
Improving energy efficiency in collection storage in Spencer Research Library, University of Kansas	45.149	PF-271970-20		36,000
Hurston on the Horizon in the Past, Present, and Future	45.163	EH-272538-20		165,627
Revisioning the Spencer Museum of Art's Collection Galleries	45.164	GI27833821		53,783
Building Literacy and Curating (Critical Cultural) Knowledge in Black Humanities: BLACK DH	45.169	HAA28103021		35,612

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Institute of Museum and Library Services (Continued)				
<u>Direct</u>				
Building Capacity for Diversity, Equity, Access, and Inclusion at the Spencer Museum of Art	45.301	MA-40-19-0377-19		\$ 52,150
Natural History Mystery: Immersing families in a problem-solving game using museum collections	45.301	MA-249109-OMS-21		19,341
Strengthening Digital Platforms for Teacher, Learning, and Exploration	45.301	MA-249559-OMS-21		75,653
Subtotal for AL No. 45.301				147,143
Subtotal: Institute of Museum and Library Services- Direct				767,965
<u>Passthrough- CHILDRENS MUSEUM OF TACOMA</u>				
Evaluating Military Family Programming	45.312	22898	MG-80-19-0029-19	31,718
<u>Passthrough- HUMANITIES KANSAS</u>				
Faith in the Free State Podcast	45.129	221008MJ	SO-268871-20	4,251
SHARP Recovery Grant - 221824SH - Kansas Public Radio	45.129		S0-253126-17	5,982
Rebuilding Community Online and at Home	45.149	4960	S0-253126-17	12,399
<u>Passthrough- NATIONAL ENDOWMENT FOR HUMANITIES</u>				
The Public Digital Humanities: An Institute for Academic/Community Collaborations	45.169	HT-281161-21		115,774
<u>Passthrough- NORTH CAROLINA STATE</u>				
Scholarly Communication Notebook	45.312	2019-2227-02	LG-36-19-0021-19	548
<u>Passthrough- WEST VIRGINIA UNIVERSITY</u>				
The American Congress Digital Archives Portal Project	45.149	21020UK	PW277585	8,763
Subtotal: Institute of Museum and Library Services- Passthrough				179,435
Total: National Aeronautics and Space Administration				947,400
Small Business Administration				
<u>Passthrough- FORT HAYS STATE UNIVERSITY</u>				
University of Kansas Small Business Development Center - 2021 (Federal Funds)	59.037	2113		27,010
University of Kansas Small Business Development Center - 2022	59.037	2213		2,820
Subtotal: Small Business Administration- Passthrough				29,830
Total: Small Business Administration				29,830

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Veterans Administration				
<u>Direct</u>				
VA Educational Therapy Program	64.000	VA255-P-0864		\$ 125
VA Educational Therapy Program	64.000	VA255-15-C-0021		5,430
Subtotal for AL No. 64.000				<u>5,555</u>
Subtotal: Veterans Administration- Direct				<u>5,555</u>
Total: Veterans Administration				<u>5,555</u>
Department of Education				
<u>Direct</u>				
Support: Connecting Communities: Increasing Competencies in Less Commonly Taught Languages and Expanding Access to Latin American and Caribbean Studies	84.015	P015B180021		314,857
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	P015B180104-19		317,514
NRC: Building Global Competencies in the 21st Century: University of Kansas Center for East Asian Studies	84.015	P015A180095		283,942
Connecting Communities: Increasing Competencies in Less Commonly Taught Languages and Expanding Access to Latin American and Caribbean Studies	84.015	P015A180021		153,762
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	P015A180104		217,609
FLAS: Building Global Competencies in the 21st Century: University of Kansas Center for East Asian Studies	84.015	P015B1800950-20		263,953
Fostering Global Competency and Engagement in the Heartland: The University of Kansas Center for Russian, East European and Eurasian Studies	84.015	P015A200004		160,219
Subtotal for AL No. 84.015				<u>1,711,856</u>
Heartland College Assistance Migrant Program	84.149	S149A150007		1,973
Heartland College Assistance Migrant Program (HCAMP)	84.149	S149A220010		1,877
Subtotal for AL No. 84.149				<u>3,850</u>

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
University of Kansas Open Language Resource Center	84.229	P229A1808008		\$ 193,864
Post-Doctoral Research Training Program in Special Education: Evidence-Base	84.324	R324B180004		156,836
Enhancing Engagement: Investigating Adaptations to Commonly Used Interventions for Elementary Students with Challenging Behavior	84.324	R324B210007		94,685
Postdoctoral Research Training in Special Education and Early Intervention	84.324	R324B200021		148,564
Subtotal for AL No. 84.324				400,085
Leadership Training in Nondiscriminatory Special Education Policy and Practice	84.325	H325D150085		117,391
University of Kansas Project to Develop Responsive, Innovative, and Visionary Educators (KU-DRIVE), Type A	84.325	H325D150084-19		141,934
ALL-Together In Early Education (ALL-TiEE): Early Childhood Unified Masters Project	84.325	H325K160075		125,096
KU LEAP: Preparing Leaders to Create Ambitious Educational Programs for Students with Severe Disabilities: Beyond De Minimis	84.325	H325D180015 - 19		209,470
Preparing Leaders to Advocate for Inclusion in Early Childhood Education (KU-PLAI-ECE)	84.325	H325D180080		344,108
Project INSTRUCT (Inclusive Interdisciplinary Supports and Training for positive, Rigorous Education and Communication Outcomes)	84.325	H325K200046		136,822
Project for Interprofessional Preparation- Early Childhood Intervention (PIP-ECI)	84.325	H32K200061		261,086
Subtotal for AL No. 84.325				1,335,907
University of Kansas Highland Park High School Cluster GEAR UP Program	84.334	P334A140114		147,082
The University of Kansas KCKPS Gear Up Program	84.334	P334A170025 - 21		2,854,775
Subtotal for AL No. 84.334				3,001,857

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
The University of Kansas Child Care Access Means Parents in School Program (KU-CCAMPIS)	84.335	P335A180137		\$ 230,704
PEAK: Partners in Education Across Kansas	84.351	S351A210022		105,112
Supporting Technology, Educators, and Parents for Upward Progress (STEP-UP)	84.365	T365Z170233		490,360
Project SEMILLA (Supporting Educators, Math Instructors, and Language Learners for Advancement)	84.365	T365Z210171		143,509
Subtotal for AL No. 84.365				633,869
DC DLM - Additional Services	84.000	PO598260		678
DC DLM - Additional Service 2019-2020	84.000	PO612002		109
				13,040
District of Columbia Test Administration and Educator Training for the Science DLM AA	84.000	PO649348		
Subtotal for AL No. 84.000				13,827
Subtotal: Department of Education- Direct				7,630,931
<u>Passthrough- IDAHO STATE DEPARTMENT OF EDUCATION</u>				
Instructional Supports Project	84.027	21-5038		45,101
<u>Passthrough- KANSAS DEPARTMENT OF EDUCATION</u>				
Support to KSDE's Literacy Network of Kansas (LINK)	84.371	652-18-1942	Support to KSDE's Literacy Network of Kansas (LINK)	12,391
COVID-19: Sunflower Summer Program	84.425U	652-21-2135		63,933
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
Kansas Inservice Training System (KITS)- Infant and Toddler Expansion	84.181	KITS SY2021 Lindeman		307,083
Tiny K - Infant Toddler Assistive Technology Services	84.181	TO21048	H181A200032	9,076
Kansas Inservice Training System (KITS)	84.181	TO21047	H181A200032	209,817
<u>Passthrough- MISSOURI DEPARTMENT OF ELEMENTARY & SECONDARY</u>				
Missouri Post-Secondary Success Project	84.027			62
Missouri Post-Secondary Success Project/ Social-Emotional Learning for All	84.027		Special Education Grant	16,652
Missouri Post-Secondary Success Project/ Social-Emotional Learning for All	84.027	24953		277,756
<u>Passthrough- OFFICE OF THE STATE SUPERINTENDENT OF EDUCATION</u>				
District of Columbia Statewide Inclusive Professional Learning Framework and Institute Proposal	84.323	24929	H323A200009	148,993
<u>Passthrough- STANFORD UNIVERSITY</u>				
Leadership in Research and Teacher Preparation for System-wide Inclusive Education	84.325	62307368-154936	H325D190042	115,627

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

Federal Grantor/Program Title	Assistance Listing Number	Identifying Number	Pass-through Entity Identifying Number	Federal Expenditures
Other Programs (Continued)				
Department of Education (Continued)				
<u>Passthrough- UNIVERSITY OF NORTH CAROLINA CHARLOTTE</u>				
National Technical Assistance Center on Transition for Students and Youth with Disabilities	84.326	20210128-05-UKS	H326E200003	\$ 240,826
<u>Passthrough- UNIVERSITY OF OREGON</u>				
Technical Assistance Center on Positive Behavioral Intervention and Supports V	84.326	282070J	H326S180001	163,327
<u>Passthrough- USD 500, KANSAS CITY</u>				
Environmental Scan of KCK Public Schools	84.425	25747	S425D210002	64,942
<u>Passthrough- WICHITA STATE UNIVERSITY</u>				
GEAR UP, South Wichita Project	84.334	R51394		(883)
Evaluation of the Wichita North GEAR UP Program 2020-21	84.334	21-01414		13,876
GEAR UP, South Wichita Project 2020-21	84.334	21-01416	P334A140178	13,876
WSU WEST WICHITA GEAR UP 2020-21	84.334	21-00978	P334A170139	38,984
WSU Southeast Wichita GEAR UP Project Evaluation 2020-21	84.334	21-01044	P334A170119	13,515
WSU Southeast Wichita GEAR UP Project Evaluation	84.334	22-00374-SEWGU		26,007
Subtotal: Department of Education- Passthrough				<u>1,780,961</u>
Total: Department of Education				<u>9,411,892</u>
Other Programs (Continued)				
Department of Homeland Security				
<u>Direct</u>				
State Fire Training Systems Grant - 2020	97.043	EMW-2020-GR-00236-S01		6,950
State Fire Training Systems Grant FY22	97.043	EMW-2021-GR-00188-S01		548
Subtotal: Department of Homeland Security- Direct				<u>7,498</u>
<u>Passthrough- KANSAS DEPARTMENT OF AGRICULTURE</u>				
Kansas Base Flood Elevation Portal	97.045			27,574
Subtotal: Department of Homeland Security- Passthrough				<u>27,574</u>
Total: Department of Homeland Security				<u>35,072</u>
Total Other Programs				15,289,467
TOTAL EXPENDITURES OF FEDERAL AWARDS				<u>\$ 123,153,185</u>

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

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

Program	Assistance Listing Number	Amount Provided
Research & Development Cluster	Various	\$ 12,712,180
University of Kansas IC Center for Academic Excellence (KU-ICCAE)	12.598	8,481
Study of the U. S. Institutes for Student Leaders on Womens Leadership	19.009	251,472
Natural History Mystery: Immersing families in a problem-solving game using museum collections	45.301	4,341
NRT-HDR: The Internet of Catalysis - Harnessing Data Science for Catalyst Design	47.076	26,264
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	5,944
Tiny K - Infant Toddler Assistive Technology Services	84.181	6,620
District of Columbia Statewide Inclusive Professional Learning Framework and Institute Proposal	84.323	68,579
The University of Kansas Child Care Access Means Parents in School Program (KU-CCAMPIS)	84.335	177,741
Project SEMILLA (Supporting Educators, Math Instructors, and Language Learners for Advancement)	84.365	1,024
Supporting Technology, Educators, and Parents for Upward Progress (STEP-UP)	84.365	89,915
Kansas Serves Native American Families - KSNAF	93.087	206,923
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	11,963
Kansas State Grant for Assistive Technology	93.464	93,140
Kansas State Plan for Assistive Technology	93.464	90,478
Coming Together and Moving Forward: Supporting Integrated, Community-Based Transition in Kansas	93.632	10,988
Kansas Self-Determined Transition Taskforce: Moving Forward To Enhance Transition Outcomes	93.632	21,935
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	119,134
Kansas Strong for Children and Families (Kansas Strong)	93.652	95,659
Assistive Technology for Kansans	93.778	55,080
Equipment Exchange: Increasing Access to Durable Medical Equipment (DME)	93.778	59,267
Medicaid Equipment Exchange	93.778	125,946
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	27,923
KU Post Baccalaureate Research Education Program (PREP)	93.859	27,186
University of Kansas/Haskell Indian Nations University IRACDA Project	93.859	22,378
Maternal, Infant and Early Childhood Home Visiting, The Institute Learning Management System	93.870	173,011
Total		<u>\$ 14,493,572</u>

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 Year ended June 30, 2022

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, 2022. 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, 2022.

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER

Department	AL Number	Amount
U.S. Department of Agriculture	10.025	\$ 23,060
	10.310	489,379
	10.331	14,305
	10.580	184,503
	10.699	4,989
	10.902	116,326
		832,562

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

Department	AL Number	Amount
U.S. Department of Commerce	11.303	\$ 141,957
	11.307	134,389
	11.431	4,026
	11.432	78,229
	11.459	57,688
	11.462	5,612
	11.609	101,145
	11.618	(6,877)
		<u>516,169</u>
U.S. Department of Defense	12.000	3,068,700
	12.006	73,688
	12.300	264,613
	12.357	1,170,248
	12.420	788,014
	12.431	985
	12.598	256,350
	12.630	68,846
	12.800	541,368
	12.903	99,770
		<u>6,332,582</u>
U.S. Department of Education	84.015	314,857
	84.027	115,413
	84.116	5,049,881
	84.000	13,827
	84.015	1,396,999
	84.022	5,815
	84.027	339,570
	84.042	586,584
	84.044	541,626
	84.047	1,378,978
	84.066	597,385
	84.149	3,850
	84.181	525,975
	84.217	330,879
	84.229	193,864
	84.305	630,939
84.323	279,371	
84.324	5,913,362	
84.325	1,716,366	
84.326	954,069	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

Department	AL Number	Amount
U.S. Department of Education (Continued)	84.327	\$ 1,998,572
	84.334	3,302,054
	84.335	230,704
	84.351	105,113
	84.356	162,277
	84.365	633,869
	84.368	490,892
	84.371	173,821
	84.407	2,824
	84.411	1,111,154
	84.425	128,875
		<u>29,229,765</u>
U.S. Department of Energy	81.000	899,166
	81.049	2,175,526
	81.086	88,812
	81.087	278,500
	81.089	1,111,582
	81.135	19,483
	<u>4,573,069</u>	
U.S. Department of Health and Human Services	93.000	1,222,383
	93.048	46,921
	93.070	26,727
	93.077	10,998
	93.086	183,022
	93.087	598,629
	93.088	84,868
	93.103	16,789
	93.110	653,115
	93.113	174,898
	93.121	336,968
	93.136	310,878
	93.172	1,993
	93.173	1,407,351
	93.184	178,883
	93.224	44,850
93.226	341,749	
93.242	1,018,130	
93.243	268,298	
93.268	14,605	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

Department	ALN Number	Amount
U.S. Department of Health and Human Services (Continued)	93.273	\$ 633,817
	93.279	247,230
	93.286	624,895
	93.310	242,101
	93.323	46,532
	93.325	11,604
	93.350	270,537
	93.351	80,376
	93.361	41,209
	93.387	18,442
	93.393	16,722
	93.394	763,157
	93.395	180,147
	93.397	178,520
	93.433	940,758
	93.434	3,683,851
	93.464	421,897
	93.505	(118)
	93.556	177,350
	93.575	987,704
	93.59	39,379
	93.590	278,643
	93.600	118,230
	93.631	270,439
	93.632	793,255
	93.648	158,852
	93.652	1,527,471
	93.654	635
	93.658	727,333
	93.670	202,116
	93.732	631,884
	93.762	36,580
	93.778	406,625
	93.779	27,923
	93.788	5,130
	93.829	147,838
	93.837	3,173
	93.838	26,769
	93.846	8,883
	93.847	824,724
93.853	1,769,063	
93.855	3,147,418	
93.859	9,643,460	
93.865	2,160,329	
93.866	4,225,338	
93.867	295,369	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

Department	AL Number	Amount
U.S. Department of Health and Human Services (Continued)	93.870	\$ 1,250,617
	93.877	236,598
	93.910	175,544
	93.994	397,714
		<u>46,046,118</u>
U.S. Department of Justice	16.000	55,335
	16.540	203,745
	16.560	26,614
	16.710	24,672
	16.839	293,955
	<u>604,321</u>	
U.S. Department of Transportation	20.000	32,330
	20.106	75,748
	20.109	476,393
	20.200	156,379
	20.205	284,439
	20.215	655,374
	20.509	218,101
	20.600	83,216
	20.616	46,034
	20.701	189,940
	20.703	13,620
	<u>2,231,574</u>	
U.S. Department of the Interior	15.000	5,471
	15.159	4
	15.512	24,440
	15.514	7,416
	15.611	148,111
	15.634	20,820
	15.654	11,592
	15.805	49,098
	15.807	38,624
	15.808	6,373
	15.810	566,859
	15.814	100,317
	15.815	26,029
15.904	13,081	
15.980	19,763	
	<u>1,037,998</u>	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

U.S. Department of the Treasury	21.009	\$ 32,530
	21.019	233,969
	21.027	503,419
		<u>769,918</u>
Institute of Museum and Library Services	45.024	90,571
	45.129	10,233
	45.130	1,185,354
	45.149	149,580
	45.160	140,117
	45.163	165,627
	45.164	53,783
	45.169	151,386
	45.301	147,143
	45.312	32,266
		<u>2,126,060</u>
National Aeronautics and Space Administration	43.000	507,360
	43.001	1,797,527
	43.008	525,760
	43.012	54,067
		<u>2,884,714</u>
National Science Foundation	47.000	314,526
	47.041	2,760,911
	47.049	2,821,728
	47.050	20,411
	47.050	2,038,044
	47.070	12,067
	47.070	1,589,604
	47.074	4,801,127
	47.075	718,697
	47.076	1,910,291
	47.078	501,930
	47.083	7,425,110
		<u>24,914,446</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2022

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND ASSISTANCE LISTING NUMBER (Continued)

Department	AL Number	Amount
Veterans Administration	64.000	\$ <u>25,847</u>
Department of State	19.000	6,838
	19.009	547,444
	19.010	276,972
		<u>831,254</u>
Federal Communications Commission	32.000	<u>131,886</u>
Small Business Administration	59.037	<u>29,830</u>
U.S. Department of Homeland Security	97.043	7,498
	97.045	27,574
		<u>35,072</u>
TOTAL		\$ <u>123,153,185</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, 2022, 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 September 30, 2022.

Report on 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) as a basis for designing 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 Center'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. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

(Continued)

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Center's financial statements are free from 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 financial statements. 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 no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

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

Indianapolis, Indiana
October 4, 2022

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

Opinion on Each Major Federal Program

We have audited compliance with the types of compliance requirements identified as subject to audit in the OMB Compliance Supplement that could have a direct and material effect on each of University of Kansas Center for Research, Inc.'s (the Center), a component unit of the University of Kansas, major federal programs for the year ended June 30, 2022. 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.

In our opinion, the Center complied, in all material respects, with the 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, 2022.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States (*Government Auditing Standards*); 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). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditor's Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the Center and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the Center's compliance with the compliance requirements referred to above.

Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the Center's federal programs.

(Continued)

Auditor's Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the Center's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material, if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the Center's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance, we

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the Center's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of the Center's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances 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 the Center's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

Report on 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 a 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 Auditor's Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

(Continued)

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

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.

A handwritten signature in black ink that reads "Crowe LLP". The signature is written in a cursive, flowing style.

Crowe LLP

Indianapolis, Indiana
October 4, 2022

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
For the year ended June 30, 2022

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

Material weakness(es) identified? _____ Yes X No

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

Noncompliance material to financial statements noted? _____ Yes X No

Federal Awards

Internal Control over major programs:

Material weakness(es) identified? _____ Yes X No

Significant deficiencies identified not considered to be material weaknesses? _____ Yes X 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 X No

Identification of major programs:

<u>AL Number(s)</u>	<u>Name of Federal Program or Cluster</u>
Various	Research and Development Cluster
84.042/84.044/84.047/ 84.066/84.217	TRIO Cluster
84.334	Gear Up

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

Auditee qualified as low-risk auditee? X Yes _____ No

SECTION 2 – FINANCIAL STATEMENT FINDINGS

None

SECTION 3 – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

None
