

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

FINANCIAL STATEMENTS
June 30, 2021 and 2020

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

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

Report on the Financial Statements

We have audited the accompanying financial statements of the University of Kansas Center for Research, Inc., a component unit of the University of Kansas, which comprise the statements of financial position as of June 30, 2021 and 2020, and the related statements of activities, and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

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

Auditor's Responsibility

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

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

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

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the University of Kansas Center for Research, Inc. as of June 30, 2021 and 2020, 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.

Emphasis of Matter

As discussed in Note 1 to the financial statements, the Center has adopted ASU 2016-02 – *Leases (Topic 842)*. Our opinion is not modified with respect to this matter.

Other Matter

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

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated September 29, 2021. On our consideration of the University of Kansas Center for Research, Inc.'s internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University of Kansas Center for Research, Inc.'s internal control over financial reporting and compliance.



Crowe LLP

Indianapolis, Indiana
September 29, 2021

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 STATEMENTS OF FINANCIAL POSITION
 June 30, 2021 and 2020

Assets	2021	2020
Current assets		
Cash and cash equivalents	\$ 37,198,498	\$ 27,293,651
Current investments	87,206,385	68,218,156
Accounts receivable, net	23,146,279	20,982,619
Note receivable, net – current	100,723	108,327
Prepaid expenses	85,576	106,604
Total current assets	147,737,461	116,709,357
Non-current assets		
Property and equipment, net	16,005,354	16,301,287
Buildings and equipment in progress	556,108	326,861
Total property and equipment, net	16,561,462	16,628,148
Right of use asset	5,812,824	-
Long-term investments	8,818,525	6,892,826
Notes receivable, net	503,667	4,555,076
Total non-current assets	31,696,478	28,076,050
Total assets	\$ 179,433,939	\$ 144,785,407
Liabilities and net assets		
Current liabilities		
Accounts payable and accrued expenses	\$ 13,649,927	\$ 16,293,360
Bonds payable, net – current	913,917	888,917
Notes payable – current	4,079,888	4,176,392
Lease liabilities, current portion	590,615	-
Assets held for others	9,462,815	7,746,793
Deferred revenues – sponsored research	8,204,509	10,226,291
Total current liabilities	36,901,671	39,331,753
Non-current liabilities:		
Notes payable, net	6,737,474	11,357,700
Bonds payable, net	5,933,926	6,796,658
Lease liabilities	5,434,989	-
Total non-current liabilities	18,106,389	18,154,358
Total liabilities	55,008,060	57,486,111
Net assets		
Without donor restrictions	115,609,073	80,408,189
With donor restrictions	8,816,806	6,891,107
Total net assets	124,425,879	87,299,296
Total liabilities and net assets	\$ 179,433,939	\$ 144,785,407

See accompanying notes to financial statements.

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

	Without Donor <u>Restrictions</u>	With Donor <u>Restrictions</u>	<u>Total</u>
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	115,750,175	-	115,750,175
Capitalized expenses for property and equipment	<u>(2,328,102)</u>	<u>-</u>	<u>(2,328,102)</u>
	<u>113,422,073</u>	<u>-</u>	<u>113,422,073</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>126,127,785</u>	<u>-</u>	<u>126,127,785</u>
Supporting services:			
University support	881,005	-	881,005
Research administration and unit support	11,963,069	-	11,963,069
Matching costs	<u>456,759</u>	<u>-</u>	<u>456,759</u>
Total supporting services	<u>13,300,833</u>	<u>-</u>	<u>13,300,833</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	80,408,189	6,891,107	87,299,296
Adoption of <i>Leases</i> accounting standard (Note 1)	<u>(210,826)</u>	<u>-</u>	<u>(210,826)</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.
STATEMENT OF ACTIVITIES
Year ended June 30, 2020

	Without Donor <u>Restrictions</u>	With Donor <u>Restrictions</u>	<u>Total</u>
Revenues, gains, and other support			
Direct research income	\$ 112,319,380	\$ -	\$ 112,319,380
Facilities & administrative (F&A) revenue	<u>25,129,508</u>	<u>-</u>	<u>25,129,508</u>
	<u>137,448,888</u>	<u>-</u>	<u>137,448,888</u>
Service centers	15,483,354	-	15,483,354
Royalties	2,186,035	-	2,186,035
Investment returns, net	352,399	(112,577)	239,822
Other income	1,267,474	-	1,267,474
Gain on refunding	604,024	-	604,024
Net assets released from restriction	<u>262,534</u>	<u>(262,534)</u>	<u>-</u>
	<u>20,155,820</u>	<u>(375,111)</u>	<u>19,780,709</u>
Total revenues, gains and other support	<u>157,604,708</u>	<u>(375,111)</u>	<u>157,229,597</u>
Expenses			
Program services:			
Direct research expenses	109,237,534	-	109,237,534
Capitalized expenses for property and equipment	<u>(2,262,259)</u>	<u>-</u>	<u>(2,262,259)</u>
	<u>106,975,275</u>	<u>-</u>	<u>106,975,275</u>
Research unit/school expenses	4,381,483	-	4,381,483
Service centers	10,614,653	-	10,614,653
Other programs services	3,917,667	-	3,917,667
Interest expense	<u>708,978</u>	<u>-</u>	<u>708,978</u>
Total program services	126,598,056	-	126,598,056
Supporting services:			
University support	1,407,768	-	1,407,768
Research administration and unit support	12,883,904	-	12,883,904
Matching costs	<u>702,761</u>	<u>-</u>	<u>702,761</u>
Total supporting services	<u>14,994,433</u>	<u>-</u>	<u>14,994,433</u>
Total expenses	<u>141,592,489</u>	<u>-</u>	<u>141,592,489</u>
Change in net assets before transfers	16,012,219	(375,111)	15,637,108
Transfers to University	<u>(664,205)</u>	<u>-</u>	<u>(664,205)</u>
Change in net assets	15,348,014	(375,111)	14,972,903
Net assets, beginning of year	<u>65,060,175</u>	<u>7,266,218</u>	<u>72,326,393</u>
Net assets, end of year	<u>\$ 80,408,189</u>	<u>\$ 6,891,107</u>	<u>\$ 87,299,296</u>

See accompanying notes to financial statements.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
STATEMENTS OF CASH FLOWS
Years ended June 30, 2021 and 2020

	<u>2021</u>	<u>2020</u>
Cash flows from operating activities		
Cash received for research contracts, grants and service accounts and unit support	\$ 142,464,707	\$ 139,479,401
Royalties received	1,347,181	2,536,885
Interest received	1,615,965	1,576,984
Payments to suppliers and University	(138,029,820)	(138,568,194)
Interest paid	(428,847)	(710,339)
Other operating receipts	<u>15,502,521</u>	<u>16,750,828</u>
Net cash from operating activities	<u>22,498,707</u>	<u>21,065,565</u>
Cash flows from investing activities		
Purchase of property and equipment	(4,225,328)	(3,641,471)
Purchase of investments	(8,004,950)	(11,145,887)
Proceeds from sales and maturities of investments	729,161	436,233
Collection of notes receivable	<u>4,059,013</u>	<u>57,667</u>
Net cash from investing activities	<u>(7,442,104)</u>	<u>(14,293,458)</u>
Cash flows from financing activities		
Principal payments on note payable	(4,286,756)	(1,382,663)
Principal payments on bonds	<u>(865,000)</u>	<u>(3,325,000)</u>
Net cash from financing activities	<u>(5,151,756)</u>	<u>(4,707,663)</u>
Increase in cash and cash equivalents	9,904,847	2,064,444
Cash and cash equivalents, beginning of year	<u>27,293,651</u>	<u>25,229,207</u>
Cash and cash equivalents, end of year	<u>\$ 37,198,498</u>	<u>\$ 27,293,651</u>
Reconciliation of change in net assets to net cash provided by operating activities		
Change in net assets	\$ 37,337,409	\$ 14,972,903
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation	3,896,127	3,989,698
Amortization	(402,706)	(185,313)
Gain on refunding	-	(604,024)
Loss on disposal of property and equipment	96,981	335,930
Realized and unrealized (gain) loss on investments	(13,638,139)	1,163,463
Transfer of assets to University of Kansas	298,906	664,205
Changes in:		
Accounts receivable, net	(2,163,660)	1,869,942
Prepaid expenses	21,028	142,319
Accounts payable and accrued expenses	(2,641,479)	(1,794,979)
Assets held for others	1,716,022	(580,706)
Deferred revenues - research	<u>(2,021,782)</u>	<u>1,092,127</u>
Net cash provided by operating activities	<u>\$ 22,498,707</u>	<u>\$ 21,065,565</u>
Non-cash activities:		
Refunding of bond payable through issuance of note payable	\$ -	\$ 10,145,000

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, 2021 and 2020, 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, 2021 or 2020.

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, 2021 and 2020

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>2021</u>	<u>2020</u>
Non-Exchange	\$ 76,298,888	\$ 76,201,844
Exchange	<u>40,391,393</u>	<u>36,117,536</u>
	<u>\$ 116,690,281</u>	<u>\$ 112,319,380</u>

Approximately 44% and 46% of all grant revenues was received from three grantors (federal agencies) in the form of direct awards during the years ended June 30, 2021 and 2020, 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, 2021, the Center had approximately \$371 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 serves 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 15 days' written notice to the other party.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

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, 2021 and 2020 are as follows:

	<u>2021</u>	<u>2020</u>
Accounts receivable:		
Federal	\$ 15,742,639	\$ 14,751,233
State	4,960,690	2,560,036
Other	<u>3,536,643</u>	<u>4,156,990</u>
	24,279,972	21,468,259
Allowance for doubtful accounts	<u>(1,133,693)</u>	<u>(485,640)</u>
	<u>\$ 23,146,279</u>	<u>\$ 20,982,619</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, 2019	\$ 1,172,887	\$ 3,519,182	\$ 4,442,095	\$ 9,134,164
Revenue recognized	(1,172,887)	(3,519,182)	(4,442,095)	(9,134,164)
Payments received for future performance obligations	<u>1,805,137</u>	<u>2,918,882</u>	<u>5,502,272</u>	<u>10,226,291</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	<u>\$ 932,051</u>	<u>\$ 1,914,569</u>	<u>\$ 5,357,889</u>	<u>\$ 8,204,509</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, 2021 and 2020. At June 30, 2021 and June 30, 2020, 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 year ended June 30, 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.

Recently Adopted Accounting Guidance: In February 2016, the FASB issued Accounting Standards Update ("ASU") 2016-02, "Leases" (Topic 842). Under the standard, an entity is required to recognize lease assets and lease liabilities on the statement of financial position. The ASU also requires additional disclosure, both quantitative and qualitative, including pertinent information about the leasing arrangement, and the amount, timing, and uncertainty of cash flows arising from leases. The Center adopted the ASU for its fiscal year ended June 30, 2021 using the modified retrospective approach as of July 1, 2020. The modified retrospective approach provides a method for recording existing leases at adoption

Subsequent Events: Management has performed an analysis of the activities and transactions subsequent to June 30, 2021, to determine the need for any adjustments or disclosures to the financial statements for the year ended June 30, 2021. Management has performed their analysis through September 29, 2021, 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 of the Center's investments at the KU Endowment are valued at net asset value and are excluded from the valuation hierarchy. The underlying assets consist primarily of marketable securities measured at fair value.

The Center classifies funds that are available for immediate expenditure as current assets and funds invested in KU Endowment's long-term investment program and other investment funds as noncurrent assets. The funds available for immediate expenditure can be redeemed on a short-term basis.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 NOTES TO FINANCIAL STATEMENTS
 June 30, 2021 and 2020

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>2020</u>	<u>Additions</u>	<u>Repayments</u>	June 30, <u>2021</u>	Current <u>Portion</u>
BTBC notes	\$ 4,663,403	\$ -	\$ (4,059,013)	\$ 604,390	\$ 100,723

Future repayment activity for the notes is as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2022	\$ 100,723	\$ 49,277	\$ 150,000
2023	53,595	21,405	75,000
2024	55,872	19,128	75,000
2025	58,246	16,754	75,000
2026	60,722	14,278	75,000
Thereafter	<u>275,232</u>	<u>30,185</u>	<u>305,417</u>
	<u>\$ 604,390</u>	<u>\$ 151,027</u>	<u>\$ 755,417</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, 2021.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 4 - PROPERTY AND EQUIPMENT

Property and equipment consisted of:

	June 30, <u>2020</u>	<u>Increases</u>	<u>Decreases</u>	June 30, <u>2021</u>
Land	\$ 808,808	\$ -	\$ -	\$ 808,808
Building	1,916,236	-	-	1,916,236
Office and scientific equipment	<u>74,095,128</u>	<u>3,591,361</u>	<u>(4,536,360)</u>	<u>73,150,129</u>
	76,820,172	3,591,361	(4,536,360)	75,875,173
Less accumulated depreciation	<u>60,518,885</u>	<u>3,896,127</u>	<u>(4,545,193)</u>	<u>59,869,819</u>
	16,301,287	(304,766)	8,833	16,005,354
Buildings and equipment in progress	<u>326,861</u>	<u>343,982</u>	<u>(114,735)</u>	<u>556,108</u>
Total property and equipment, net	<u>\$ 16,628,148</u>	<u>\$ 39,216</u>	<u>\$ (123,568)</u>	<u>\$ 16,561,462</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 \$298,906 and \$664,205 during the years ended June 30, 2021 and 2020, 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, 2021 and 2020, these amounts totaled \$9,462,815 and \$7,746,793, respectively.

NOTE 6 - BONDS PAYABLE

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

	<u>June 30, 2020</u>	<u>Additions</u>	<u>Retirements</u>	<u>June 30, 2021</u>	<u>Current Portion</u>
Revenue bonds:					
Series 2014E	<u>7,670,000</u>	-	<u>(865,000)</u>	<u>6,805,000</u>	<u>890,000</u>
	7,670,000	-	(865,000)	6,805,000	890,000
Bond premiums	130,756	-	(5,457)	125,299	23,917
Bond issuance costs	<u>(115,181)</u>	-	<u>32,725</u>	<u>(82,456)</u>	-
Total	<u>\$ 7,685,575</u>	<u>\$ -</u>	<u>\$ (837,732)</u>	<u>\$ 6,847,843</u>	<u>\$ 913,917</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 6 - BONDS PAYABLE (Continued)

Long-term debt is comprised of the following:

<u>Revenue Bonds</u>	Balance at June 30, <u>2021</u>	Balance at June 30, <u>2020</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>	<p><u>6,805,000</u></p>	<p><u>7,670,000</u></p>
	<p><u>\$ 6,805,000</u></p>	<p><u>\$ 7,670,000</u></p>

In accordance with University policy, the capitalized costs of the facilities financed by the bonds have been previously transferred to and are reported on University's financial statements. These facilities include Multidisciplinary Research building and Structural Biology Center Phase III building which were financed by Series 2012E and 2014E, respectively. During the year ended June 30, 2020, Series 2012E bonds were refunded through the issuance of the loan from the University as disclosed in Note 7. At June 30, 2021 and 2020, the net book value of these facilities was approximately \$25.7 million and \$28.0 million, respectively.

Future revenue bond debt service requirements at June 30, 2021 are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2022	\$ 890,000	\$ 204,150	\$ 1,094,150
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>\$ 6,805,000</u>	<u>\$ 652,800</u>	<u>\$ 7,457,800</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, 2021, the Center reported compliance with these covenants.

Interest expense, net of amortization, related to all bonds payable for the years ended June 30, 2021 and 2020, was \$247,100 and \$477,172, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 7 - NOTES PAYABLE

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

	<u>June 30, 2020</u>	<u>Additions</u>	<u>Retirements</u>	<u>June 30, 2021</u>	<u>Current Portion</u>
KU Endowment	\$ 4,385,479	\$ -	\$ (1,931,756)	\$ 2,453,723	\$ 1,439,553
Series 2012E Refunding	<u>10,145,000</u>	<u>-</u>	<u>(2,355,000)</u>	<u>7,790,000</u>	<u>2,470,000</u>
	14,530,479		(4,286,756)	10,243,723	3,909,553
 Premium	 <u>1,003,613</u>	 <u>-</u>	 <u>(429,974)</u>	 <u>573,639</u>	 <u>170,335</u>
 Total	 <u>\$ 15,534,092</u>	 <u>\$ -</u>	 <u>\$ (4,716,740)</u>	 <u>\$ 10,817,362</u>	 <u>\$ 4,079,888</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>
2022	\$ 1,439,553	\$ 116,154	\$ 1,555,707
2023	<u>1,014,170</u>	<u>30,425</u>	<u>1,044,596</u>
	<u>\$ 2,453,723</u>	<u>\$ 146,679</u>	<u>\$ 2,600,303</u>

Interest expense related to this note for the years ended June 30, 2021 and 2020 was \$131,654 and \$159,218, respectively.

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>
2022	\$ 2,470,000	\$ 389,500	\$ 2,895,500
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>\$ 7,790,000</u>	<u>\$ 791,750</u>	<u>\$ 8,581,750</u>

Interest expense related to this note for the years ended June 30, 2021 and 2020 was \$46,493 and \$72,588, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

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, 2021 and 2020 was as follows:

	<u>2021</u>	<u>2020</u>
<u>University Activity (Unaudited)</u>		
University Research Expenditures	\$ 12,587,148	\$ 16,425,930
University Indirect Cost	<u>3,088,680</u>	<u>3,690,216</u>
Total University Activity (Unaudited)	15,675,828	20,116,146
 <u>Center for Research Expenditures</u>		
Center for Research Expenditures	114,639,136	109,237,534
CARES Act Grant Expenditures	1,111,039	-
Center Indirect Cost	<u>28,243,846</u>	<u>25,129,508</u>
Total Center for Research Expenditures	<u>143,994,021</u>	<u>134,367,042</u>
 Total Sponsored Expenditures – University and Center (unaudited)	 <u>\$ 159,669,849</u>	 <u>\$ 154,483,188</u>

NOTE 9 - NET ASSETS

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

	<u>2021</u>	<u>2020</u>
Dole Institute	\$ 7,365,396	\$ 5,742,620
Humanities	<u>1,451,410</u>	<u>1,148,487</u>
	<u>\$ 8,816,806</u>	<u>\$ 6,891,107</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>2021</u>	<u>2020</u>
Dole Institute	\$ 195,262	\$ 217,741
Humanities	<u>33,899</u>	<u>44,793</u>
	<u>\$ 229,161</u>	<u>\$ 262,534</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

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.

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, 2021 and 2020, the original corpus value of the endowment was \$5,996,006. The changes in donor-restricted endowment net assets for the years ended June 30, 2021 and 2020 were:

Endowment net assets, July 1, 2019	\$ 7,266,218
Investment return, net	(112,577)
Amounts appropriated for expenditure	<u>(262,534)</u>
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	<u>\$ 8,816,806</u>

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

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 10 – ENDOWMENTS (Continued)

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, 2021 and 2020.

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.

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, 2021 and 2020, amounts paid by the University (and reimbursed by the Center) for salaries, benefits, scholarships, fellowships, tuition, and other operating expenses amounted to approximately \$102,162,387 and \$91,978,528, respectively. Of these amounts, approximately \$10,366,407 and \$13,171,807 are included in accounts payable and accrued expenses at June 30, 2021 and 2020, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 11 - RELATED PARTY TRANSACTIONS (Continued)

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, 2021 and 2020:

	<u>2021</u>	<u>2020</u>
Provost funding:		
Salaries and benefits	\$ 2,344,294	\$ 2,113,278
Other Investments	<u>2,231,307</u>	<u>2,107,804</u>
	4,575,601	4,221,082
Utilities	48,746	53,663
Information technology services	66,258	66,258
Maintenance	21,943	34,413
Custodial	<u>35,118</u>	<u>38,707</u>
	<u>\$ 4,747,666</u>	<u>\$ 4,414,123</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, 2021 and 2020.

The Center provided support to KU Endowment for departmental benefit in funding research, graduate studies, distinguished professorships, scholarships and fellowships. Support of \$1,450,436 and \$1,502,401 was provided to KU Endowment during the fiscal years 2021 and 2020 and is included in other program services on the statement of activities.

During the years ended June 30, 2021 and 2020, 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, 2021 were:

2022	\$ 699,574
2023	677,921
2024	659,148
2025	576,481
2026	329,960
Thereafter	<u>3,934,214</u>
	6,877,298
Less: Interest	<u>(851,594)</u>
	<u>\$ 6,025,604</u>

Rent expense for all operating leases was \$1,062,893 and \$1,004,542 for the years ended June 30, 2021 and 2020, respectively.

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

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 \$61,035 and \$119,506 for 2021 and 2020 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.

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>2021</u>	<u>2020</u>
Financial assets at year-end:		
Cash and cash equivalents	\$ 37,198,498	\$ 27,293,651
Current investments	87,206,385	68,218,156
Accounts receivable, net	23,146,279	20,982,619
Notes receivable, net – current	<u>100,723</u>	<u>108,327</u>
Total financial assets	147,651,885	116,602,753
Less amounts not available to be used:		
Investments held as assets held for others	<u>(9,462,815)</u>	<u>(7,746,793)</u>
Financial assets available to meet general expenditures within one year	<u>\$ 138,189,070</u>	<u>\$ 108,855,960</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.

(Continued)

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, 2021 and 2020

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	Total Program Services	University Support	Research Admin., Unit Support, Startup	Matching Costs	Total Supporting Services	
Salaries and wages	\$ 51,180,214	\$ -	\$ 1,543,002	\$ 9,792,283	\$ 747,184	\$ -	\$ 63,262,683	\$ (33,791)	\$ 5,939,651	\$ 169,779	\$ 6,075,639	\$ 69,338,322
Taxes & fringe benefits	11,576,456	-	455,074	2,751,898	162,550	-	14,945,978	(3,004)	1,545,270	37,115	1,579,381	16,525,359
Subaward payments	10,502,100	-	-	-	52,000	-	10,554,100	-	-	-	-	10,554,100
Professional fees	5,253,304	-	(45,136)	4,372,042	966,200	-	10,546,410	445,151	360,943	4,656	810,750	11,357,160
Supplies	5,530,312	-	344,095	2,062,909	19,720	-	7,957,036	14,260	214,832	31,845	260,937	8,217,973
Travel and food	428,262	-	35,497	48,918	(19,050)	-	493,627	5,036	16,684	5,269	26,989	520,616
Tuition	5,923,988	-	91,192	87,677	13,207	-	6,116,064	16,982	95,865	176,190	289,037	6,405,101
Participant fees	3,031,786	-	18,038	1,642	(1,644)	-	3,049,822	2,425	8,470	51,048	61,943	3,111,765
Depreciation	2,612,411	-	110,166	70,937	4,378	-	2,797,892	-	1,098,235	-	1,098,235	3,896,127
Equip. & non-capital	2,637,288	(2,328,102)	11,257	64,866	(28,040)	-	357,269	82,588	108,681	65,544	256,813	614,082
Interest expense	-	-	-	-	-	425,247	425,247	-	-	-	-	425,247
Other expense	3,878,142	-	709,592	321,307	722,722	-	5,631,763	351,358	2,571,391	(91,746)	2,831,003	8,462,766
Allocated service fees	13,195,912	-	44,502	(13,258,812)	8,292	-	(10,106)	-	3,047	7,059	10,106	-
Total	\$ 115,750,175	\$ (2,328,102)	\$ 3,317,279	\$ 6,315,667	\$ 2,647,519	\$ 425,247	\$ 126,127,785	\$ 881,005	\$ 11,963,069	\$ 456,759	\$ 13,300,833	\$ 139,428,618

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO FINANCIAL STATEMENTS
June 30, 2021 and 2020

NOTE 16 - EXPENSES BY NATURE (Continued)

Year ended June 30, 2020:

	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	Total Program Services	University Support	Research Admin., Unit Support, Startup	Matching Costs	Total Supporting Services	
Salaries and wages	\$ 49,045,485	\$ -	\$ 1,759,391	\$ 7,877,073	\$ 1,274,769	\$ -	\$ 59,956,718	\$ 124,719	\$ 6,167,415	\$ 209,180	\$ 6,501,314	\$ 66,458,032
Taxes & fringe benefits	10,917,204	-	418,466	2,224,338	176,052	-	13,736,060	15,768	1,699,586	56,286	1,771,640	15,507,700
Subaward payments	12,245,368	-	-	-	8,829	-	12,254,197	-	(14,228)	-	(14,228)	12,239,969
Professional fees	3,939,255	-	207,578	4,006,802	999,156	-	9,152,791	363,812	266,210	35,903	665,925	9,818,716
Supplies	4,517,134	-	521,266	1,726,799	81,910	-	6,847,109	7,817	272,763	79,651	360,231	7,207,340
Travel and food	3,241,069	-	435,566	844,547	70,231	-	4,591,413	24,027	151,502	33,602	209,131	4,800,544
Tuition	5,123,523	-	183,130	87,308	58,839	-	5,452,800	-	100,024	105,435	205,459	5,658,259
Participant fees	4,137,233	-	10,135	6,413	(3,720)	-	4,150,061	3,680	65,157	86,917	155,754	4,305,815
Depreciation	2,748,816	-	118,190	90,584	3,823	-	2,961,413	-	1,028,285	-	1,028,285	3,989,698
Equip. & non-capital	2,543,100	(2,262,259)	82,834	10,558	90,845	-	465,078	499	280,041	19,297	299,837	764,915
Interest expense	-	-	-	-	-	708,978	708,978	-	-	-	-	708,978
Other expense	3,023,543	-	601,610	1,991,169	1,142,799	-	6,759,121	867,446	2,445,026	60,931	3,373,403	10,132,524
Allocated service fees	7,755,804	-	43,317	(8,250,938)	14,135	-	(437,682)	-	422,123	15,559	437,682	-
Total	\$ 109,237,534	\$ (2,262,259)	\$ 4,381,483	\$ 10,614,653	\$ 3,917,668	\$ 708,978	\$ 126,598,056	\$ 1,407,768	\$ 12,883,904	\$ 702,761	\$ 14,994,433	\$ 141,592,489

SUPPLEMENTARY INFORMATION

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster				
Department of Agriculture				
<u>Direct</u>				
Virus and Vector Protein Expression	10.001	58-3020-5-024		\$ 1,870
Develop canopy sensing and computational systems for real-time control and feedback of irrigation technology	10.310	S17170		7,390
Reprogramming extracellular nanovesicles as highly potent vaccines against bovine respiratory disease	10.310	2017-67021-28898		26,966
NRI: INT: COLLAB: Collaborative Autonomy and Safety for Teamed Human-Unmanned Aircraft Systems in Fast Evolving Wildfire Environment	10.310	2019-67021-28992		2,470
NRI: INT: COLLAB: An autonomous insect Sense, Identify, and Manage Platform	10.310	2019-6702-28986		85,995
Legume-rhizobia mutualism as a driver of grassland composition and community resistance to invasion	10.310	2019-67012-29534		70,189
NRI: INT: COLLAB: Collaborative Autonomy and Safety for Teamed Human-Unmanned Aircraft Systems in Fast Evolving Wildfire Environment	10.310	2019-67021-28992		97,992
Productivity and Soil Fertility Responses to Grassland Plant Diversity: Testing Competing Hypotheses	10.310	2020-67034-31889		34,513
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		4,690
Subtotal for CFDA No. 10.310				330,205
Ethnobotanical Research, Mapping and Monitoring on the Rio Grande National Forest	10.699	17-CS-11020900-019		4,988
Modeling water quality and in-stream biological endpoints of agricultural conservation in the Mississippi River Basin	10.902	NR203A750023C023		35,912
Subtotal: Department of Agriculture- Direct				372,975
<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	56
<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	4,639
Subtotal: Department of Agriculture- Passthrough				4,696
Total: Department of Agriculture				
				377,671
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	ED18DEN3030031		154,890
Application for administration of supplemental planning grant for CARES Act Recovery Assistance	11.307	ED20DEN3070059		90,076
Southern Climate Impacts Planning Program (SCIPP) Phase III	11.431	2019-11		22,857
Airborne Snow Depth Retrieval for Improved Hydrological Modeling	11.459	NA19OAR4590206		226,217
Subtotal: Department of Commerce- Direct				494,040
<u>Passthrough- UNIVERSITY OF ALABAMA-TUSCALOOSA</u>				
Center for Remote Sensing of Snow and Soil Moisture Measurement	11.432	A20-0344-S001	NA19NES4320002	66,670
Center for Remote Sensing of Snow and Soil Moisture Measurement	11.462	A18-0336-S001-A04	NA18NWS4620043B	42,243
<u>Passthrough- COLORADO STATE UNIVERSITY</u>				
Center for Risk-Based Community Resilience Planning	11.609	G-99042-10	70NANB20H008	72,113
<u>Passthrough- AECOM</u>				
AECOM Community Resilience Support Services	11.618	MSA 20S25523GV03	1333ND19DNB730013	20,865
Subtotal: Department of Commerce- Passthrough				201,891
Total: Department of Commerce				
				695,931

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster (Continued)				
Department of Defense				
<u>Direct</u>				
Waveform Diversity Experimentation System (WaDES)	12.300	N00014-19-1-2666		\$ 196,890
Improving regional model representation of cloudy boundary layers across midlatitude synoptic systems in NRL COAMPS	12.300	N00014-20-1-2519		13,771
Distributed Machine Learning and Sensor Fusion for Spectrum Sensing System Optimization	12.300	13000894-004		12,299
Subtotal for CFDA No. 12.300				222,960
Blocking breast cancer metastasis by targeting RNA-binding protein HuR	12.420	W81XWH-16-1-0729		78,407
High-throughput TCR repertoire-based platforms for antigen-specific cancer immunotherapy	12.420	W81XWH-18-1-0296		198,706
Development of a Military-Specific Transdiagnostic Eating-Disorder Survey and Screening Tool in a Nationally Representative Sample of Veterans	12.420	W81XWH1910207		584,150
Subtotal for CFDA No. 12.420				861,263
A High-Order CPR Method on Overset Adaptive Cartesian and Prismatic Meshes for Rotorcraft Flow Simulations	12.431	W911NF-15-1-0505		2,527
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		14,295
Cognitive Radar to Address Spectral Congestion	12.431	W911NF-15-2-0063		(1,716)
W911NF-12-R-0011-04: State Estimation for Complex Dynamic Systems with Unstructured Uncertainty	12.431	W911NF-17-2-0138		(8,531)
Graphics Processing Unit (GPU) Infrastructure for Massively Parallel Computing Research (ARO)	12.431	W911NF2010065		14,500
Subtotal for CFDA No. 12.431				21,075
Parametric Resonances in Time-Varying Media for Optical Limiting Applications	12.800	FA9550-20-1-0046		117,758
Stochastic control for systems with non-Gaussian noise	12.800	FA9550-20-1-0336		175,005
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		47,468
Software-Defined Rada Algorithm Development	12.800	D8736-S6		33,872
Subtotal for CFDA No. 12.800				374,103
Archaeological Curation Agreement with Tulsa District COE	12.000	W912BV-16-P-0087		9,469
Coded APSK for Improved Spectral Efficiency in Aeronautical Mobile Telemetry	12.000	2017-319		295,409
Science of Security for Cyber-physical Systems (SCpS)	12.000	H98230-18-D-0009		619,233
Advancement in Seismic Imaging for Tunnel Detection: ASII System upgrade to ASII-skinny (single streamer, stationary source)	12.000	W912HZ18C0033		66,447
Enhanced Implementation of K-Scope & ASII Tunnel Detection Analysis Approach Using FWI, Modal Segmentation Methods, and Integrated Multi-Modal Techniques	12.000	W912HZ19C0014		304,576
Advancement in Seismic Imaging for Tunnel Detection: ASI to ASII-skinny	12.000	W912HZ19C0031		128,240
Navy Applications of Physical MIMO and Waveform Diversity	12.000	N00014-20-C-1006		448,828
Waveform Diversity for Complex Environments	12.000	W911NF2020271		207,414
Subtotal for CFDA No. 12.000				2,079,616
Subtotal: Department of Defense- Direct				3,559,017
<u>Passthrough- ADAPTIVE METHODS</u>				
Advanced Sonar Signal Processing	12.000	PO-9418	N00024-20-C-5211	74,954
<u>Passthrough- ADVENTIUM LABS</u>				
Vulnerabilities Out of Learned Timed Automata (VOLTA)	12.000	1071-001-001-007	FA8750-19-C-0083	193,028
<u>Passthrough- BATTELLE MEMORIAL INSTITUTE</u>				
Point Velocity Probe to Aid in the Evaluation of Groundwater Flow Rate and Direction within the Groundwater-Surface Water Transition Zone	12.000	US001-0000756266	N3943016D1802 / N3943018F4379	3,119
<u>Passthrough- BLACK RIVER SYSTEMS COMPANY</u>				
Evaluation for PCFM & CPM Wave Forms	12.000	1515-S05-BRSC	FA8650-15-C-1838	39,707

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster (Continued)				
Department of Defense (Continued)				
<u>Passthrough- BRIGHAM YOUNG UNIVERSITY</u>				
Space Time Coding for Multi-h CPM	12.000	17-0493	W15QKN-15-9-1004	\$ 172,465
<u>Passthrough- COLLINS AEROSPACE</u>				
StairCASE	12.000	CW2251607	HR00111890001	147,467
<u>Passthrough- DARCORPORATION</u>				
Model and Mode Agnostic AI Controller for VTOL Aircraft	12.000	24751	STTR	53,424
<u>Passthrough- DEFENSE ENGINEERING CORPORATION</u>				
Waveform Research and Development for Emerging RF Sensing Technologies	12.000	P.O. No. 10316	A8650-17-C-1026	45,401
Waveform Research and Development for Emerging RF Sensing Technologies	12.000	10343	FA8650-20-C-1955	162,000
<u>Passthrough- IERUS TECHNOLOGIES, INC.</u>				
Quasi-Orthogonal Doppler Waveform Apps	12.000	2021-KU-001	W56KGU-21-C-0025	7,078
<u>Passthrough- MATRIX RESEARCH, INC.</u>				
Master Agreement	12.000	S2014-012	FA8650-14-D-1722	46,964
<u>Passthrough- NEW SOUTH ASSOCIATES</u>				
Curation Services FY19	12.000	TO 46-W912P919F0202	W912P917D0012	2
Curation Services FY20	12.000	5891_KU_Curation	W912P920F0298	13,257
<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	56,443
<u>Passthrough- UNIVERSITY OF CALIFORNIA - SAN DIEGO</u>				
Economic Interdependence and National Security in the 21st Century	12.630	703707	FA9550-20-1-0145	12,625
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Does TBI Affect mtDNA Heteroplasmy?	12.420	Z3H00010	W811XWH 18-1-0497	66,688
Circulating Extracellular Vesicles for Early Detection and Real-Time Monitoring of Ovarian Cancer	12.420	Z3G00000	W81XWH1910360	19,781
<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	157,758
Subtotal: Department of Defense- Passthrough				1,272,161
Total: Department of Defense				4,831,178
Department of Education				
<u>Direct</u>				
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		401,567
Effects of Implicit Bias on Children's Early Outcomes	84.305	R305A190199		142,346
AspirePlus: A Researcher-Practitioner Partnership to Promote Self-Determination and More Positive Student Outcomes	84.305	R305H190017 Act 2		90,069
Subtotal for CFDA No. 84.305				633,982
Middle School Class-wide Function-related Intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	84.324	R324A160279		60,047
Implementing an Emergent Literacy Curriculum for Students with Intellectual Disabilities in General Education Classrooms	84.324	S15-0002		(99)
MTSS and Self-Determination: Examining the Impact of Tier 1 Supports to Promote Self-Determination and Academic Outcomes	84.324	R324A170008		625,111
Professional Development to Support Teachers' Implementation of a Tiered Model for Promoting Social Development of Infants and Toddlers	84.324	R324A170118		348,024
Validation of Cognitive Problem-Solving and Movement Infant-Toddler IGDIs for Screening and General Outcome Progress Monitoring	84.324	R324A150166-17		(23,504)
Measuring Early Communication Development in Children with ASD	84.324	R324A160072		192,829

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
Development of a Data-based Decision Making System to Support Educators' Promotion of Infants and Toddlers' Cognitive Problem-Solving Skills	84.324	R324A170141 - 19	\$	315,620
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		132,899
Factors Contributing to Academic, Social/Communication, and Behavioral Outcomes for Elementary Students with the Most Significant Cognitive Disabilities	84.324	R324A180024		234,191
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		279,478
Project DataWall: A Decision Support System for MTSS	84.324	R324A190054		335,300
Promoting Self-Determination for Students with Disabilities: A Goal-Setting Challenge App	84.324	R324A180012		206,612
Possible Selves and Self-Determination: Improving Transition Outcomes for High School Students with Learning Disabilities	84.324	R324A190011 - 20		358,164
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		287,111
Para-Impact: Professional Development with Teacher-as-Coach for Paraeducators of Elementary Students with Moderate-to-Severe Developmental Disabilities	84.324	19100063-004		21,120
Evaluating the Efficacy of a Daily Check-in/Check-out Intervention for Students At-Risk for Emotional and Behavioral Disorders	84.324	C00064320-2		30,027
Enhancing Ci3T: Building Professional Capacity for High Fidelity Implementation to Support Students' Educational Outcomes (Project ENHANCE)	84.324	R324N190002		626,494
Promoting ASAP Collaboration through Technology (PACT): An Intervention Modification to Enhance Home-School Collaboration	84.324	R324A170151 - 19		140,914
5E Model Professional Development in Science Education for Special Educators (5E-SESE)	84.324	R324A18202		146,639
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		324,377
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		223,218
Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improving Academic Engagement and Outcomes for Middle School Students	84.324	R324A200063		14,210
Validity of a Nonspeech, Dynamic Assessment of the Alphabetic Principle (DAAP)	84.324	R324A200190		34,198
Subtotal for CFDA No. 84.324				4,912,980
KU ACCESS: Leadership in Access, College, Career, and Extensive and Significant Supports for Secondary Students with Severe Disabilities	84.325	H325D140031-17		90,475
Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel	84.325	H325D160080		186,892
Strengthening Outcomes for All Learners in Inclusive Settings (SOARS)	84.325	H325K160141 - 20		281,443
Subtotal for CFDA No. 84.325				558,810
Shared Writing Instructional Model(SWIM) for Students with Intellectual Disabilities	84.326	H326M180010		288,489
Making It Happen: Stepping Up Implementation of IGDI Technology to Improve Data-based Decision Making for Infants and Toddlers with or at-risk for Disabilities	84.327	H327S140024		221,925

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster (Continued)				
Department of Education (Continued)				
<u>Direct</u>				
Stepping Up Technology Enabled Self-Monitoring For High School Students with Disabilities	84.327	H327S170001		\$ 495,660
Virtual reality Opportunities to Integrate Social Skills (VOISS) Center for Innovation, Design, and Digital Learning	84.327	H327S180006		647,324
Special Educator Technology-based Training of Trainers (SETTT) for Success	84.327	H327F200008		94,429
Subtotal for CFDA No. 84.327				1,678,258
Project COaching On Learning (COOL) for UDL Implementation	84.326			13,165
Use of Learning Maps as an Organizing Structure for Formative Assessment	84.368	652-16-1887		7,492
Innovations in Science Map, Assessment, and Report Technologies (I-SMART)	84.368	190496/201566/211174		589,608
Subtotal for CFDA No. 84.368				597,100
Comprehensive Literacy State Development Grant - Las Cruces Public Schools	84.371	CSA20-21-01		54,092
KU Transition to Postsecondary Education for Youth with ID	84.407	P407A150017 - 19		176,485
Supporting High-Needs Elementary Students with the CW-FIT Program: Building for Scale and Sustainability	84.411	U411B190025		755,180
Project ASPIRE: Achieving Success in Promoting Readiness for Education and Employment	84.418	10033712		(585)
Subtotal: Department of Education- Direct				14,717,837
<u>Passthrough- KANSAS DEPARTMENT OF EDUCATION</u>				
Kansas SPDG Evaluation	84.323	652-18-1939	SPDG Evaluation	176,489
<u>Passthrough- UNIVERSITY OF TEXAS-AUSTIN</u>				
Center for Postsecondary Outcomes for Deaf Individuals	84.326D	UTA16-001045	H326D160001	113,976
<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 Childre	68,296
<u>Passthrough- CAST, INC.</u>				
CORGI 2020: Scaling Models for the Classrooms of Tomorrow	84.327	KUCR110119-24	H327S190008	105,778
<u>Passthrough- METROPOLITAN NASHVILLE PUBLIC SCHOOLS</u>				
GEAR UP Nashville Project	84.334	2-00530-01	Gaining Early Awareness and Readiness for Undergraduate Programs	236,684
Subtotal: Department of Education- Passthrough				701,223
Total: Department of Education				15,419,060
Department of Energy				
<u>Direct</u>				
Mechanistic Studies to Enable Aerobic Oxidation of C-H Bonds by Manganese Catalysts	81.049	DE-SC0016359		178,015
Scrutinizing entrainment and mass flux closures in shallow cumulus parameterizations using cloud-radar observations and large-eddy simulation	81.049	DE-SC0016522		102,832
Searches for New Physics in Standard Model Processes	81.049	DE-SC0017988		36,125
Probing Small-x QCD Dynamics With Hadronic Collisions	81.049	DE-SC0019389		73,759
Molecular to Mesoscale Targeting of Oxoanions with Multi-Tasking Hosts	81.049	DE-SC0018629		39,955
Uranyl Capture and Activation with Lewis Acids and Macrocyclic Hosts	81.049	DE-SC0019169		160,311
Searching for the Nature of Dark Matter and Dark Energy	81.049	DE-SC0019474		263,676
Ab Initio Machine Learning Algorithms for Modeling Kinetics on Amorphous Catalysts	81.049	DE-SC0019488		332,473

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UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Research and development cluster (Continued)				
Department of Energy (Continued)				
<u>Direct</u>				
Understanding Rate Constants of Hydrated Electron Reactions	81.049	DE-SC0021114	\$	45,895
Research in Heavy-Ion Nuclear Physics: Studying the initial state of QCD matter	81.049	DE-SC0020914		158,013
Electron transfer in heterostructures based on two-dimensional materials	81.049	DE-SC0020995		44,680
Theoretical Particle Physics in the Data-Driven Era	81.049	DE-SC0021447		2,246
Research in Heavy-Ion Nuclear Physics at CMS	81.049	DE-FG02-96ER40981		461,713
Subtotal for CFDA No. 81.0449				1,899,693
Stationary Direct Methanol Fuel Cells Using Pure Methanol	81.087	DE-EE0008440		163,593
A NOVEL SMART MICROCHIP PROPPANTS TECHNOLOGY FOR PRECISION DIAGNOSTICS OF HYDRAULIC FRACTURE NETWORKS	81.089	DE-FE0031784		506,600
Subtotal: Department of Energy- Direct				2,569,886
<u>Passthrough- BATTELLE MEMORIAL INSTITUTE</u>				
GAS SEPARATION USING FURAN-BASED POLYMER MEMBRANES - PROJECT H22020	81.087	DE-EE0007888-06-09	DE-EE007888-06-09	92,844
<u>Passthrough- HONEYWELL</u>				
Carbon Storage Assurance Facility Enterprise (CarbonSAFE)	81.089	US001-0000726904	DE-FE0031623	351,330
<u>Passthrough- LAWRENCE BERKELEY NATIONAL LAB</u>				
MASTER COLLABORATION AGREEMENT	81.000		DE-NA0002839	979,221
<u>Passthrough- LAWRENCE LIVERMORE NATIONAL LABORATORY</u>				
Research During Sabbatical Leave during 2020-2021 Academic Year	81.000	7561272	DE-AC02-05CH11231	53,417
<u>Passthrough- NEW MEXICO TECH</u>				
Theoretical and Algorithmic Development of Asynchronous Iterative Linear Solvers	81.000	B638709	DE-AC52-07NA27344	799
<u>Passthrough- NORTHERN ILLINOIS UNIVERSITY</u>				
Carbon Utilization and Storage Partnership (CUSP) for the Western USA	81.089	P0019651	DE-FE0031837	64,877
<u>Passthrough- SANDIA NATIONAL LABORATORIES</u>				
5-D dual-readout calorimetry for the Next Generation of HEP Experiments	81.049	G1A627765-1	DE-SC0021123	7,725
<u>Passthrough- SUMNER COUNTY GOVERNMENT</u>				
Molecular Modeling of Fluid Properties at Mineral Interfaces	81.000	2127658		73,250
Waveform diversity and signal processing capabilities for radar and multi-function operation in spectrally congested, contested, and constrained environments	81.000	2237007	DE-NA0003525	7,883
<u>Passthrough- TRIAD NATIONAL SECURITY LLC</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	3,235
<u>Passthrough- UNIVERSITY OF CALIFORNIA REGENTS</u>				
Parallel High-order Curvilinear Mesh Generation Algorithms and Software for Use with Computational Mechanics Simulations	81.000	619744	89233218CNA000001	5,912
<u>Passthrough- UNIVERSITY OF MARYLAND - BALTIMORE</u>				
Konza Prairie Subcontract	81.000	7114774	DE-AC02-05CH11231	1,194
<u>Passthrough- UNIVERSITY OF NORTH DAKOTA</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	70,956
<u>Passthrough- UNIVERSITY OF TEXAS-AUSTIN</u>				
Experimental Study of Oil Swelling with Ethane and Propane	81.000	11203462	Plains CO2 Reduction (PCOR) Partnership	68

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Research and development cluster (Continued)				
Department of Energy (Continued)				
<u>Passthrough- VISTA CLARA, INC.</u>				
GWPC-Regional Induced Seismicity Collaborative (RISC)	81.089	UTA18-000016	DE-FE00027702	\$ 1,878
<u>Passthrough-</u>				
Dynamic NMR Logging Technologies for High-Resolution Measurement of Hydrogeologic Properties and Soil Response	81.049	21635	DE-SC0017096	41,686
Subtotal: Department of Energy- Passthrough				1,756,275
Total: Department of Energy				4,326,161
Department of Health and Human Services				
<u>Direct</u>				
Kansas Serves Substance Affected Families	93.087	90CU0077-05-00		15
Kansas Serves Native American Families - KSNAP	93.087	90CU0079		617,804
Oklahoma Partnership Initiative, Phase 3: Program Evaluation FY2021	93.087			125,616
Subtotal for CFDA No. 93.087				743,435
Bridging the Word Gap Research Network	93.110	5 UA6MC27762-06-00		272,629
Maternal Depression and Related Behavioral Disorders	93.110			142,397
Kansas University Affiliated Program	93.110	AWD0000226		15,151
Subtotal for CFDA No. 93.110				430,177
Toxicogenomics of metal response in genetically-variable Drosophil populations	93.113	5R01ES029922-03		164,785
Peptide-Polymer Engineering Dentin/Adhesive Interfacial Bond Integrity	93.121	R01DE025476		2,903
Peptide-Polymer Engineering Dentin/Adhesive Interfacial Bond Integrity	93.121	R01DE025476		223,251
Subtotal for CFDA No. 93.121				226,154
Interactive book reading to accelerate word learning by children with SLI	93.173	R01DC0012824		293,496
Morphosyntactic Abilities of SLI Probands	93.173	5R01DC001803-24		273,280
A virtual vocal tract for speech output using non-invasive brain-computer interface	93.173	1R01DC016343-02		260,204
Training Researchers in Language Impairments	93.173	T32DC000052		193,001
Genetic studies of specific language impairment (SLI) using consanguineous families	93.173	R21DC0017830		138,335
Subtotal for CFDA No. 93.173				1,158,316
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	6 NU27DD000006-05-01		440,087
COVID-19: Care and Safety Practices during the Pandemic in Home-Based Long term Services and Supports	93.226	R01HS028172		114,194
Trauma exposure, emotion regulation and cognitive skills in early childhood: Prospective and longitudinal examination of the mechanisms of adjustment	93.242	R01MH079252		422,381
Motor abnormalities and functional brain mechanisms in autism spectrum disorder	93.242	R01MH112734		431,625
Ecological Momentary Assessment of Unhealthy Exercise and Affect in Eating Disorders	93.242	R36MH120943		38,130
Subtotal for CFDA No. 93.242				892,136
Idaho Advancing Wellness and Resiliency in Education (ID-AWARE)	93.243	217822		18,464
REDCap Vaccine Administration Forms	93.268	KDHE-TO-21038		6,728
A cluster-randomized trial of a behavioral activation intervention administered in a college freshman orientation course	93.273	5R01AA027791-02		244,103
Using Neuroeconomics to Characterize State-Based Increases and Decreases in Alcohol Value	93.273	R01AA027255		90,940
Subtotal for CFDA No. 93.273				335,043
Neuronal Circuits and Molecular Mechanisms Underlying Early Social Isolation-Potentiated Heroin Seeking	93.279	1K01DA050908-01		75,313

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Microfluidic Integrative Circulating miRNA Profiling for Cancer Diagnosis	93.286	1R21EB024101-01		\$ (13)
Biotechnology Resource Center of Biomodular Multi scale Systems CBM2 for Precision Molecular Diagnostics	93.286	P41EB020594-06		442,287
Scanning Resonator Microscopy	93.286	R03EB027357		41,778
Subtotal for CFDA No. 93.286				<u>484,052</u>
Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression	93.310	5DP5OD023118-03		202,539
Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression	93.310	5DP5OD023118-03		259,148
Subtotal for CFDA No. 93.310				<u>461,687</u>
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	ZPBK0020		8,577
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	ZPBT0030		56,319
Subtotal for CFDA No. 93.350				<u>64,896</u>
A resource for the Genetic Analysis of Complex Traits	93.351	5R01OD010974-10		232,678
Integrated exosomes profiling for minimally invasive diagnosis and monitoring of cancer	93.394	R33CA214333-01		135,354
Increased Sensitivity of Minimal Residual Disease Monitoring using Peripheral Blood in Pediatric Patients with Acute Lymphoblastic Leukemia	93.394	R33CA235597		250,468
Nano-Engineered Lab-on-a-Chip for Assessing HuR-Regulated Exosomes for Cancer Monitoring and Targeted Therapy	93.394	R01CA243445		596,731
Subtotal for CFDA No. 93.394				<u>982,553</u>
Molecular cancer therapy targeting HuR-ARE interaction	93.395	5R01CA191785-05		227,286
Targeted Small Molecule Inhibitors for Inv(16) Leukemia	93.395	GB10639_PO_2091174		44,397
Subtotal for CFDA No. 93.395				<u>271,683</u>
Benzoylation of proteins with synthetic compounds and its prevention with polyamines	93.397	SRA No. 24904		4,827
Act Early Ambassador Application	93.424			1
Community Living and Supported Decision-Making	93.433	28373-04197-S01		3,593
I-CONNECT PLUS: Enhancing Community Participation for Adolescents and Adults with ASD using Online Instruction, Coaching, and Accessible Self-Management Technologies	93.433	90DP0058-04-00		139,289
Research and Training Center on Community Living	93.433	90RT5043-04-01		825,052
Promoting Career Design and Development via Telehealth for Rural Adults with Intellectual and Developmental Disabilities	93.433	90IFRE0039		54,253
Subtotal for CFDA No. 93.433				<u>1,022,187</u>
KDHE Master Agreement-Task Order: Child Care Systems Improvement Team (CC-SIT) Services	93.434	KDHE_TO_21013		64,116
Illinois Coordinated Intake Pilot	93.434	FCSZI05593		24,846
HHS/ACF Preschool Development Grant Birth through Five	93.434	90TP0078-02		194,355
Subtotal for CFDA No. 93.434				<u>283,317</u>
Kansas State Plan for Assistive Technology	93.464	1801KSSGAT		1,112
2019-2020: Kansas State Plan for Assistive Technology	93.464	1901KSATSG-02		222,136
Kansas State Grant for Assistive Technology	93.464	2001KSATG		169,849
Subtotal for CFDA No. 93.464				<u>393,097</u>
Implementation and Sustainability of Positive-behavior-support in Real Early-care (InSPIRE)	93.575	90YE0207-01-00		13,429
'Quality Support Services	93.575			11,394
Subtotal for CFDA No. 93.575				<u>24,823</u>
Community-Based Grants for the Prevention of Child Abuse and Neglect (CBCAP) 2016	93.590	40022		(4)
Kickapoo Tribe in Kansas Tribal CBCAP	93.590	19343		42,152
National Center for Community-Based Child Abuse Prevention	93.590	90CZ0024		-
Subtotal for CFDA No. 93.590				<u>42,148</u>

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
AOD - Supported Decision Making Across the Lifespan Planning Grant	93.631	90DNDM000301		\$ 27,774
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	90DDUC0033		620,111
Coming Together and Moving Forward: Supporting Integrated, Community-Based Transition in Kansas	93.632	90DDUC0084-01-00		51,459
COVID-19: Supporting People with Disabilities with Vaccine Access during in Kansas	93.632	90DDC50034-01-00		1,364
Subtotal for CFDA No. 93.632				672,934
Kansas Strong for Children and Families (Kansas Strong)	93.652	90CO1139-03-00		1,519,214
Oregon ROM Reports System	93.658	133972		120,646
Prevention Grant Evaluation, Families First Prevention Services Act	93.658	PPS-2019-FFPEV		728,156
Iowa ROM 2021 - 2026	93.658	ACFS 21-206		2,893
Subtotal for CFDA No. 93.658				851,695
Quality Improvement Center on Child Welfare Involved Children and Families Experiencing Domestic Violence	93.670	2191		(59)
Behavioral Health Workforce Education and Training (BHWET) Program	93.732	1 M01HP313600100		436,871
Quality and Value Innovation Consortium's evaluation of Kansas City Engaging Patients in Care Coordination (KC-EPICC) program	93.775	Q030RD02		1,819
Equipment Exchange: Increasing Access to Durable Medical Equipment (DME)	93.778	KDHE2014-011		23,135
Kansas SED Waiver Assessment & Evaluation Services	93.778			51,276
Subtotal for CFDA No. 93.778				74,411
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	KDHE2014-010		24,053
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	KDHE2014-010 Amd 7		75,971
Subtotal for CFDA No. 93.779				100,024
Kickapoo Opioid Response Project	93.788	24254		8,643
Medicaid Waiver Functional Eligibility Instrument	93.793			(1,542)
Medicaid Waiver Functional Eligibility Instrument - CARE Instruction	93.793			(1,286)
Medicaid Waiver Functional Eligibility Instrument - HCBS PACE Instruction	93.793			66,769
Medicaid Waiver Functional Eligibility Instrument - HCBS PACE Research	93.793			67,786
Medicaid Waiver Functional eligibility Instrument - CARE INSTRUCTION	93.793			39,187
Subtotal for CFDA No. 93.793				170,914
Adapting the Diabetes Prevention Program for a developing world context	93.837	16-0004		
Act Early Ambassadors: State or Territorial Liaisons to CDCs, Learn the Signs. Act Early. Program	93.837			3,796
Subtotal for CFDA No. 93.837				3,796
ReACT an Adaptive Mobile Health Intervention for Adolescent Asthma	93.838	1R56HL141394-01A1		214,570
Weight management in rural health clinics	93.847	R01DK108732		156,926
Weight management for adults with mobility related disabilities	93.847	ZAD000F0		14,043
Subtotal for CFDA No. 93.847				170,969
HTS to identify small molecules to disrupt abnormal huntingtin interactions in HD	93.853	5R01NS088059-04		48,210
The role of ETR-1/CELF1, an RNA binding protein, in Neuronal Migration	93.853	1R21NS100483-02		11,322
Tools for neuronal pathway analysis at sub-second and single-cell resolution	93.853	5 R21 NS109659-02		172,025

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Structural and functional connectivity of the social decision-making network	93.853	3R01NS113104-02S1		\$ 551,434
Regulation of growth cone polarity and protrusion in axon guidance	93.853	R03NS114554		54,723
A Novel Pharmacologic Approach to Treat CMT1X	93.853	1R61NS114355-01A1		114,656
Regulation of directed neuroblast migration by the ECM and MAB-5/Hox	93.853	1R01NS115467-01A1		73,945
Wearable real-time functional brain mapping for a non-human primate stroke model	93.853	R01NS118918		140,644
Subtotal for CFDA No. 93.853				<u>1,166,959</u>
NMR studies of bacterial needle and tip proteins	93.855	5R01AI074856-10		89,355
Assembly/function of the sorting platform of the Shigella type III secretion apparatus	93.855	R01AI123351		298,454
Generating Native Env Glycosylation in HIV Vaccine Candidates	93.855	5R01AI125093-02		378,645
Small Molecule Protease Inhibitors against MERS-CoV	93.855	S18147		60,778
Development of a next generation vaccine to prevent pertussis	93.855	1R21AI136525-01		47,707
Improved Informatics for Epitope Mapping by Hydrogen Exchange-Mass Spectrometry	93.855	R21AI135701		158,516
The causes of balancing selection on immunity genes: from populations to molecular interactions.	93.855	1R01AI139154-01		368,136
Vaccines to counter emerging antibiotic resistance	93.855	R01AI138970		1,213,909
Identification of CYP5122A1 inhibitors as chemical probes for Leishmania biology	93.855	5R01AI139198-03		520,341
Development of a broadly protective subunit vaccine against Pseudomonas aeruginosa	93.855	1R21AI140701-01		93,447
Comprehensive molecular and functional analyses of anti-HIV-1 antibody repertoires	93.855	1R21AI143407-01		80,243
Probing antigen specificity and response of autoimmune B cells in Neuromyelitis Optica	93.855	R21AI144408		121,659
Identification of small molecule probes for dissecting the roles of sorting platform components within the type III secretion system	93.855	R121AI146517		154,811
Investigating How ADP-Ribosylation Impacts Innate Immunity During Coronavirus Infection	93.855	1K22AI134993-02		84,218
Identifying functional targets of HSV-1 ICP0-directed degradation	93.855	R21AI154302		146,905
Resistance-gene-guided genome mining for novel antifungal compounds	93.855	R21A1156320		50,378
Subtotal for CFDA No. 93.855				<u>3,867,502</u>
Molecular Analysis of Disease Pathways	93.859	5P20GM103638-10		2,316,930
Integrated Resource for Protein Recognition Studies	93.859	R01GM074255		286,161
MBRS IMSD Program at the University of Kansas	93.859	5R25GM062232-17 REVISED		34,515
Protein Structure and Function	93.859	5P30GM110761-05		(1)
Chemical Biology for Infectious Disease	93.859	P20GM113117		1,913,595
Training Grant in Dynamic Aspects of Chemical Biology	93.859	T32GM008545E-26		58,963
Identifying stabilizers of p53 using pocket complementarity	93.859	FCCC15101-04		2,276
KU Post Baccalaureate Research Education Program (PREP)	93.859	R25GM078441		296,169
500 Nations Bridge Collaboration: Haskell Indian Nations University / U of Kansas	93.859	5R25GM060182-17 REVISED		104,637
Antimicrobial peptides as models for the evolution of gene duplication	93.859	4R00GM114714-03		(13,450)
Molecular Characterization of Hepatic Organic Anion Transporting Polypeptides	93.859	ZAH00000 MOD1		268
Designed Beta-strands for inhibiting efflux pumps and disabling antibiotic resistance	93.859	1DP2GM128201-01		473,598
Fluoroalkylethers and Fluorinated Ethermimetics	93.859	5R35GM124661-03		23,955
Mechanisms of Gamma-Secretase	93.859	R01GM122894		269,486
Robust rational design of chemical tools to inhibit RNA-binding proteins	93.859	15119-04		11,535

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
University of Kansas/Haskell Indian Nations University IRACDA Project	93.859	5K12GM063651-18	\$	537,538
Novel and essential metallophores from multidrug resistant bacterial pathogens	93.859	5R01GM127655-02 REVISED		23,331
Mass Spectrometry Measurements for Complex PTMS	93.859	5R35GM130354-03		290,414
Graduate Training at the Biology-Chemistry Interface	93.859	T32GM132061		360,842
Enhanced Sampling of G-Protein-Coupled Receptor-G Protein Interactions	93.859	R01GM132572		121,271
Genetic dissection and characterization of variation in copper resistance in Drosophila melanogaster	93.859	F32GM133111		63,069
Quorum sensing evolution and function in mixed bacterial communities	93.859	1R35GM133572		(779)
Effects of Exercise on Animal Cognition	93.859	A00-026-S024-A01		14,584
Metabolomic Markers of Disease Activity and Therapeutic Response in Autoimmune Arthritis	93.859	ZPG0000D		199,100
MARC at The University of Kansas	93.859	T34GM136453		60,683
3D biomimetic lymph node engineered extracellular vesicles for understanding the heterogeneity of adaptive immunity	93.859	1R35GM133794-01		26,706
Determining mechanisms of innate immune modulation by ADP-ribosylation	93.859	1R35GM138029-01		219,268
Designing peptide-based inhibitors of bacterial efflux pumps	93.859	PO 1000989261		37,856
Quorum sensing evolution and function in mixed bacterial communities	93.859	R35GM133572		505,242
K-INBRE Bioinformatics Core Facility 2021-2022	93.859	GR15827		4,759
Subtotal for CFDA No. 93.859				8,242,521
Kansas Intellectual and Developmental Disabilities Research Center (KIDDRC)	93.865	5P30HD002528-49REV		(2,208)
The effects of parenting on the development and behavior of FXS adolescents	93.865	5R01HD084563-05		328,961
Kansas Intellectual and Developmental Disabilities Research Center	93.865	3U54HD090216-04S1		1,438,578
Individual and family-based approaches to increase physical activity in adolescents with IDD	93.865	R01HD094704		368,610
Behavioral Inflexibility in IDD Outcome Measurement	93.865	7R01HD082127-05		243,571
Validation of an outcome measure of early social- communication for young children with ASD	93.865	R01HD100364		190,010
Examining Biobehavioral Mechanisms of Extreme Eating Behaviors in Young Children with ASD	93.865	F32HD101311		64,985
Young Infants' Detection of Emotion	93.865	1K99HD101500-02		98,745
The Influence of Executive Functioning on Internalizing and Somatic Symptoms in Trauma-Exposed Arab Resettled Refugee Parent-Child Dyads	93.865	1F31HD102193-01		36,519
Gatlinburg Conference on Research in ID/DD	93.865	R13HD102142		2,000
Parent-implemented treatment for repetitive behaviors in children with ASD: Using a novel telehealth approach to increase service access	93.865	1R01HD105036		1,770
Subtotal for CFDA No. 93.865				2,771,541
Role of Clusterin in Brain Mitochondria	93.866	1R21AG055964-01		12,556
Membrane-anchored amyloid peptides in Alzheimer's disease	93.866	R21AG052751		790
ApoE, Energy, and Synaptic V-ATPase	93.866	1R21AG059177-01		104,155
Sporadic Alzheimer's Disease: A Bioenergetic Etiology?	93.866	1R01AG061038-02		355,259
A Dyadic Approach for a Remote Physical Activity Intervention in Adults with Alzheimer's Disease and their Caregivers	93.866	R01AG061187		147,266
Prescribing Smart Aging: Integrating Health Systems with Community-Based Lifestyle Interventions	93.866	ZAB00040-Watts18		11,323
Synapse structural dynamics and memory loss in mouse models of Alzheimer's disease	93.866	R01AG064067		445,146
Remediation of elevated delay discounting in mid-life individuals: A stage-II trial	93.866	R01AG048904		296,925

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Direct</u>				
Structure and Function of Gamma-Secretase in Familial Alzheimer's Disease	93.866	1R01AG066986-01		\$ 495,793
Mitochondria targeting for Alzheimer's Disease	93.866	3R21AG070466-01S1		37,864
Ghsr1a and Hippocampal Pathology in Alzheimer's Disease	93.866	RAG059753		356,753
Mitochondrial ATP Synthase Dysfunction and Synaptic Stress in Alzheimer's Disease	93.866	RAG053588B		239,983
Subtotal for CFDA No. 93.866				2,503,813
Precisely removing microvessels by photo-mediated ultrasound therapy	93.867	R01EY029489		371,550
All Our Kids Network University of Illinois IRIS Proposal	93.870	096419-17530		1,745
All Our Kids Network University of Illinois IRIS Proposal 2020-2021	93.870	100690-17939		27,129
Subtotal for CFDA No. 93.870				28,874
Preventing Youth Violence by Addressing Social Determinants Through the KC Youth Violence Prevention Project	93.910	YEPMP170096-		375,803
Evaluation of Maternal and Child Health Efforts in Kansas	93.994			-
KDHE-Monitoring and Evaluating Implementation of the Title V Maternal and Child Health State Action Plan	93.994			21,280
Subtotal for CFDA No. 93.994				21,280
Adjuvants Discovery Program	93.000	HHSN272201400056C		444,146
Toward the development of a protein:non-protein macromolecular adjuvants	93.000	75N93019C00036-Sub		71,833
Kansas SED Waiver Assessment & Evaluation Services	93.000			71,497
Exonuclease time of flight for low-cost, rapid identification of	93.000	HHSN261201800032C-		18,142
Subtotal for CFDA No. 93.000				605,618
Subtotal: Department of Health and Human Services- Direct				33,081,809
<u>Passthrough- ASSOCIATION OF UNIVERSITY CENTERS ON DISABILITIES</u>				
UT2 Autism Intervention Research Network on Physical Health (AIR-P)	93.877	01-21-8840	6UT2MC39440-01	3,286
<u>Passthrough- BBC ENTREPRENEURIAL TRAINING AND CONSULTING LLC</u>				
The Sustainable Heartland Accelerator Regional Partnership (SHARP) Hub	93.859	Supplement	3UT2GM130175-02S1	22,948
<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	100,382
<u>Passthrough- BIOMEDICAL RESEARCH INSTITUTE OF NEW MEXICO</u>				
PTPRD ligands for stimulant and opiate use disorders	93.279	358-Uhl-2020	1U01DA047713	59,999
<u>Passthrough- CHAPEL HILL TRAINING OUTREACH PROJECT IN</u>				
2019 National Center for Community-Based Child Abuse Prevention	93.590		Unknown	68,544
<u>Passthrough- CHILDREN'S MERCY HOSPITALS & CLINICS</u>				
Local Conditions and Child Health	93.865	18-0030	R21HD094106	18,299
<u>Passthrough- CHRISTOPHER & DANA REEVE FOUNDATION</u>				
Accessible Recreation: Playing Electronic Games Independently to Increase Health & Social Connection	93.325		90PRRC0002-01-01	63,395
<u>Passthrough- DESIGNZYME</u>				
Cortisol Biosensor Phase 1	93.859	1R43GM137652-01A1 SUB	RGM137652A	45,638
<u>Passthrough- DIGITAL NANOGENETICS LLC</u>				
A novel single molecule sequencing technology for direct, label-less detection of unamplified DNA single molecules	93.172	1R43HG010551-01-Sub	1R43HG010551-01	1,335
<u>Passthrough- DREXEL UNIVERSITY</u>				
Prevalence and Profile of Treatment Non-responders in Autism Early Intervention	93.173	800198	1R01DC017181-01A1	29,719
<u>Passthrough- DUKE UNIVERSITY</u>				
HIV-1 vaccine-elicited antibodies target envelope glycans	93.855	A0337643	2R01AI120801-06	34,363

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- FUTURES WITHOUT VIOLENCE</u>				
A Quality improvement center on domestic violence in child welfare - Implementation	93.670	2496	Quality Improvement Center on Child Welfare Involved Children and Families Experiencing Domestic Vio	\$ (52)
A Quality Improvement Center on Domestic Violence in Child Welfare - Planning	93.670	2669	90CA1850-02-01	112
A Quality Improvement center on domestic violence in child welfare	93.670	3037	90CA1850-04	80,528
A Quality Improvement center on domestic violence in child welfare	93.670	3037 Addendum #1	90CA 1850-04	167,276
<u>Passthrough- HEALTH RESEARCH, INC.</u>				
Lyme Disease: B Cell Epitope Discovery and Mechanisms of Antibody Protection	93.000	6176-02	75N93019C00040	145,686
<u>Passthrough- HORIZONS MENTAL HEALTH CENTER</u>				
CCBHC Expansion Grants	93.829	24921	H79SM083196	14,983
<u>Passthrough- INTEGRATED BIOTHERAPEUTICS, INC.</u>				
Mining natively paired macaque antibodies for Marburg virus protective antibodies	93.855		R43AI145480	41,392
<u>Passthrough- INTERNATIONAL AIDS VACCINE INITIATIVE</u>				
Antigen-Adjuvant Formulation and Characterization Studies to assess HIV-1 Envelope (Env) glycoprotein(s) and adjuvant formulations	93.855	22802		480,683
<u>Passthrough- KANSAS CHILD CARE TRAINING OPPORTUNITY</u>				
Infant-Toddler Specialist Network: KCCTO-KITS Partnership	93.575	23358	EES-2021-ITSN-01	1,024,350
<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	2,230,255
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)	112,532
<u>Passthrough- KANSAS COUNCIL ON DEVELOPMENTAL DISABILITIES</u>				
Supporting Decision Making: Learning from Self-Advocate Experience	93.630	KCDD-2020-KUCFR-SDM-01	Federal Grant Award	31,610
<u>Passthrough- KANSAS DEPARTMENT FOR AGING AND DISABILITY SERVICE</u>				
COVID-19: Assistive Technology Pilot Effort: Addressing Isolation, Health, Nutrition and Safety Concerns Through Technology during the Pandemic Assistive Technology for Kansans	93.048		90NWC30044-01-00	14,227
<u>Passthrough- KANSAS DEPARTMENT FOR CHILDREN AND FAMILIES</u>				
Quality Support Services	93.575	43540	Child Care and Development Block Grant	195,358
Kansas Enrichment Network - FY 2021	93.575	49429	Child Care and Development Block Grant	55,241
<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	131,293
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
Master Agreement	93.110	48567 - TO 21007	5UK3MC322410300	225,523
Evaluation of Programs at Kansas' Sexual Assault Prevention and Education Center (SAPEC)	93.136		Cooperative Agreement 5 NUF2CE2424-05-00	24
Kansas Department of Health and Environment Contract for Second Step Evaluation Project	93.136		5NUF2CE02414-05-00	9,848
Gender Based Violence Prevention Impact Evaluation	93.136	KDHE - SAPEC 2020	NUF2CE02414-05-00	37,685
SEXUAL VIOLENCE PRIMARY PREVENTION COMMUNITY BASED EVALUATION	93.136	TO21031	5NUF2CE002495-03-00	16,340
Evaluation of Programs at KU Sexual Assault Prevention and Education Center	93.136	48567 UKCR, Task Order 21032	5NUF2CE002495-03-00	9,661
Medical Entomology Subject Matter Expert	93.323	48567, Task Order 21043	NU50CK000549	10,841

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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	93.505			
Equipment Exchange: Increasing Access to Durable Medical Equipment (DME)	93.778	KDHE2014-1011	Medical Assistance Program	\$ 193,380
Kansas MIECHV Program	93.870		HRSA -15-102 MIECHV	55,253
Kansas MIECHV Program	93.870	21029	X10MC396870100	58,878
SEXUAL VIOLENCE PRIMARY PREVENTION COMMUNITY BASED PROJECT EVALUATION	93.991	PO82213	5NUF2CE002414-05-00	44,323
Monitoring and Evaluating Implementation of the MCH State Action Plan	93.994	48567 TO 21009, PO 88006	6 B04MC338390103	73,545
KDHE Universal Home Visiting Review	93.994	48567 UKCR - Task Order 21044	B04MC40135	48,300
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Discovery of Hsp100-selective inhibitors for targeting multiple microbial pathogens	93.855	A00-1041-S001	R01AI141586	147,430
Discovery of Hsp100-selective inhibitors for targeting multiple microbial pathogens	93.855	A00-1041-S002	R01AI141586	92,606
Developing Bacterial Glycosyltransferase Inhibitors as Anti-Virulence Drugs	93.855	A21-0198-S001	R56AI153202	72,260
CNAP Pilot Grant Mentoring	93.859	A00-0226-S032	P20GM113109	143
<u>Passthrough- KICKAPOO TRIBE</u>				
Kickapoo Tribe in Kansas SAMHSA Circle of Care Program Evaluation	93.243	19940	5H79SM08012-02	94,381
Kickapoo Native Connections Evaluation	93.243	24036	1H79SM082694-01	15,368
Cooperative Agreements for Tribal Behavior Health (Native Connections)	93.243	18178-Mod 4	14SM61926A	3,647
Kickapoo Practices for Wellness Evaluation and Performance Plan	93.762	21173	NU58DP006395	30,178
<u>Passthrough- LEIDOS BIOMEDICAL RESEARCH INC.</u>				
Development and Application of Antibody Optimization Technologies to Improve Public Health	93.000	18X007	HHSN261200800001E	257,546
<u>Passthrough- LOUISIANA STATE UNIVERSITY</u>				
Chemical tools for perturbing iron homeostasis in P. aeruginosa	93.855	PO-0000060806	PO-0000060806	5,442
<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 2017 - 2019	93.556	17-690-20223-3	G1801NMF PSS	64,801
New Mexico ROM FY2021	93.556	21-5000-21071	G-1801NMF PSS	52,355
<u>Passthrough- NORTHWESTERN UNIVERSITY</u>				
A Family-Genetic Study of Autism and Fragile X Syndrome	93.242	60054681	R01MH091131	39,087
<u>Passthrough- OHIO STATE UNIVERSITY</u>				
Research grants for preventing violence and violence related injury	93.136	60066707	R01CE0903098	60,925
<u>Passthrough- OK DEPARTMENT OF MENTAL HEALTH & SUBSTANCE ABUSE</u>				
Oklahoma Partnership Initiative, Phase 3: Program Evaluation	93.087	4529057905	90CU0066	70,355
Oklahoma Partnership Initiative, Phase 3: Program Evaluation FY2020	93.087	Purchase order 4529060119	90CU009301	34,589
<u>Passthrough- PHOTOSONOX LLC</u>				
Photo-mediated ultrasound therapy for treatment of cutaneous vascular malformations	93.286	23407	R41EB030875	1,588
<u>Passthrough- PUBLIC HEALTH INSTITUTE: ALCOHOL RESEARCH GROUP</u>				
Understanding 12-Step Involvement Among Sexual and Gender Minorities	93.273	01820	5P50AA005595	10,700
<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	43,879
<u>Passthrough- UNIV OF CALIFORNIA - BERKELEY</u>				
STEM Escape: Immersing urban and rural families in biomedical mysteries	93.351	00010137	1R25GM132971-01	23,143

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF ARKANSAS -MEDICAL SCIENCES</u>				
Data Coordinating and Operations Center (DCOC) for the IDeA States Pediatric Clinical Trials Network	93.865	51460	8U24OD024957	\$ 2,575
Data Coordinating and Operations Center (DCOC) for the IDeA States Pediatric Clinical Trials Network - 2020	93.865	54005 - PO # G218700078	2U24OD024957-03	25,858
<u>Passthrough- UNIVERSITY OF CALIFORNIA - LOS ANGELES</u>				
Autism Intervention Research Network on Behavioral Health (AIR-B)	93.877	2000 G YC232	UT339436	27,696
<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 RO1A1137056-01	215
<u>Passthrough- UNIVERSITY OF COLORADO</u>				
The Influence of Evolutionary Landscapes on Protective Antibody Development	93.855	1557541- PO1001139944	R01A114152	183,061
<u>Passthrough- UNIVERSITY OF COLORADO AT DENVER</u>				
T cell responses shared among triple negative breast cancer patients	93.393	FY19.661.001	1R21CA230847-01	2,668
<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	12,249
<u>Passthrough- UNIVERSITY OF GEORGIA</u>				
USING NEUROECONOMICS TO UNDERSTAND ALCOHOL OVERVALUATION IN ALCOHOL USE DISORDER	93.273	SUB00002433	R01AA025911	7,370
<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	43,847
<u>Passthrough- UNIVERSITY OF KANSAS MEDICAL CENTER RESEARCH INSTITUTE</u>				
Kansas University Affiliated Program	93.110	QR814064	T73MC06623-14-00	536
Translating research into school-based practice via small-group, language-focused comprehension intervention	93.173	GR15603	R01DC018823	6,273
COVID-19 RADx-UP: Improving the Response of Local Urban and Rural Communities to Disparities in Testing	93.310	AWD-0001969	3UL1TR002366-04S3	14,462
Frontiers: University of Kansas Clinical and Translations Science Institute	93.350	ZPBT0020	STL1TR002368-03	8,040
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	ZPBU0026-Brumberg	5UL1TR002366	17,566
Frontiers: University of Kansas Clinical and Translational Science Institute	93.350	2BU0026-Jarmolowicz	5UL1TR002366-04	13,071
Working Memory Training as Pretreatment Adjunct to Smoking Cessation.	93.350	ZPBT0030-Collado	5KL2TR002367	71,164
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	30,462
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	15,098
Frontiers: University of Kansas Clinical and Translational Science Institute - Sensorimotor function in autism spectrum disorders (ASD)	93.350	ZPBT0030	TL1TR002368	68,336
Investigating approved therapeutics for their ability to inhibit the SARS-CoV-2 ADPribosylhydrolase	93.350	AWD-0001802	5UL1TR002366-04	43,082
Evaluation of the NIH SEPA T-SCORE Project	93.351	ZAC00010-Ginther	8R25GM129226-04	14,555
The safety and efficacy of megesterol as part of an outpatient feeding protocol for children with chronic medical conditions	93.361	0001673	R01HD093933	14,416
Sexual Health Empowerment for Jail-Involved Women's Health Literacy and Prevention	93.393	ZAR00080	R01CA181047	5,397
Automated identification and classification of laryngeal diseases using deep neural networks	93.394	AWD0001832	1R03CA253212-01	31,046
Targeting Kinesin Family Member 15 for the Treatment of Cancer	93.395	ZAG00020	R01CA2214545	100,682

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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>				
NCI Cancer Center Support Grant Lead Development & Optimization Shared Resource	93.397	ZPJ00010-Schoenen	P30CA168524	\$ 27,779
NCI Cancer Center Support Grant for Biotechnology Innovation and Optimization Center (BIOC)	93.397	ZPJ00030	5P30CA168524-08	34,462
CPS Cancer Prevention and Survivorship Research Program - KUCC Core	93.397	ZPJ00030	P30CA168524	29,158
NCI Cancer Center Support Grant Lead Development & Optimization Share Resource	93.397	ZPJ00030	P30CA168524	23,455
NCI Cancer Center Support Grant - Cancer Biology Research Program	93.397	ZPJ00030-Neufeld	P30CA168524	24,919
Cancer Center Support Grant	93.397	GR15150	3P30CA168524-09S4	3,579
The Online and Applied System for Intervention Skills (OASIS) - Scaling-up!	93.433	Z1H00040	90DPKT0003-01-00	4,545
Project Eagle: Early Head Start	93.600	QS814216	07CH7075-06-00	10,677
Project Eagle: Early Head Start	93.600	AWD-0001966	07CH011678-01-02	92,120
RNA-binding protein HuR in liver pathophysiology and carcinogenesis	93.847	ZAZ00040	R01DK119131	72,423
Understanding Polycystin-1 Structure-GPCR Function for the Development of New Therapeutic Approaches in ADPKD	93.847	AWD-0001715	3R01DK123590-01S1	32,626
Towards exome analyses: Surprising outcomes from mutating nonconserved positions	93.859	ZAS00080	1R01GM118589-03	10,780
K-INBRE Partnership Pair: Novel NanoChip to detect exosomal biomarkers in liquid biopsy of non-small cell lung cancer patients with metastasis	93.859	PO#1000989257	5P20GM103418-20	33,418
Service contract for the NextSeq 550 and MiSeq in the Genome Sequencing Core	93.859	PO#1000989262	5P20GM103418-20	15,150
The Kansas Institute for Precision Medicine	93.859	ZPG00010	5P20GM130423-02	8,639
KINBRE Summer Scholars	93.859	PO 1000989266	P20GM103418-20	36,895
KINBRE Star Trainees	93.859	PO 1000989265	5P20GM103418-20	14,850
KINBRE Campus Coordinator 2020-2021	93.859	GR15882	5P20GM103418-20	3,426
K-INBRE Bioinformatics Core Facility 2020-2021	93.859	1000989264	P20GM103418	148,657
K-INBRE Undergraduate Coordinator Office (UCO) Yr 7	93.859	PO#1000989268	5P20GM103418-20	75,408
The Kansas Institute for Precision Medicine	93.859	ZPG00010	5P20GM130423-02	4,121
The Kansas Institute for Precision Medicine: Biomedical Engineering Core	93.859	ZPG00012	5P20GM130423-02	72,435
The Kansas Institute for Precision Medicine - Administrative Core	93.859	ZPG00010	1P20GM10423-01	100,882
The Sustainable Heartland Accelerator Regional Partnership (SHARP) Hub	93.859	Z9W000D1	4UT2GM130175-02	18,752
K-INBRE Bridging Award: Molecular identification and precise therapeutic targeting of anti-insulin B cells in Type I diabetes	93.859	GR15848	5P20GM103418-21	7,968
K-INBRE Undergraduate Research Office (URO)	93.859	GR15828	5P20GM103418-21	6,509
K-INBRE Star Trainee Award: Barybin, Woosley, Wright	93.859	GR15856	5P20GM103418-21	6,057
K-INBRE Summer/Translational/Bioinformatic Scholars: Do, Goff, Loo, Robinson, Sandhu, Anoruse-Thomas, Winata, Kauffman	93.859	GR15857	5P20GM103418-21	10,698
momHealth: Mobile Multiple Health Behavior Change in Teen Pregnancy & Parenting	93.865	ZAW00020 Mod 1	R21HD088913	579
Mito Genomics Metabolism	93.866	AWD-0000245	P30AG035982	193,492
Swerdlow Haplo Group J	93.866	GR114019	1R01AG061194-01	24,187
KU ADC Mitochondrial Genomics and Metabolism Core Supplement	93.866	QS85528M	P30AG035982	7,617
Toward a Simple Model Organism for Familial Alzheimer's Disease	93.866	QS855260	5P30AG035982-10	11,856
Remote Monitoring and Virtual Collaborative Care for Hypertension Control to Prevent Cognitive Decline	93.866	GR15063	R61AG068483	22,058
<u>Passthrough- UNIVERSITY OF MARYLAND - BALTIMORE</u>				
Adjuvant development of the TLR4 ligand BECC438	93.000	F211956-1 UMB Ref. No.: 3085	HHSN27220180043C	258,356
<u>Passthrough- UNIVERSITY OF MINNESOTA</u>				
Control of Chromosome Segregation by DNA Topoisomerase II	93.859	N006994001	1R01GM130858-01	40,652

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Research and development cluster (Continued)				
Department of Health and Human Services (Continued)				
<u>Passthrough- UNIVERSITY OF MISSOURI - COLUMBIA</u>				
COVID-19: 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	\$ 108,790
Identification of Small Molecular Inhibitors of Rift Valley Fever Virus Replication	93.855	C00070940-1	7R21AI28377	72,999
KC HealthTracks	93.137	00094041-00068138	CPIMP151115-04-00	25,454
Addressing Social Determinants of Health to Improve Diabetes Prevention Program Outcomes Among African Americans	93.847	0099790/00067449	R01DK124664	11,902
<u>Passthrough- UNIVERSITY OF NOTRE DAME</u>				
Chaperone therapeutics for the treatment of DPN	93.853	203645KU	7R01NS075311-06	112,805
<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	48,873
<u>Passthrough- UNIVERSITY OF VERMONT</u>				
University of Vermont Center on Tobacco Regulatory Science	93.077	32359SUB52491	2U54DA036114-06	(1,001)
<u>Passthrough- UNIVERSITY OF WASHINGTON</u>				
Functional Genomics for Chlamydia	93.855	UWSC9070	5R01AI126785-04	159,521
<u>Passthrough- VESAREX LLC</u>				
Ultrasound-facilitated endovascular laser thrombolysis	93.839	00065187	1R43HL147783-01	34,617
<u>Passthrough- VIRGINIA TECH</u>				
Identification of novel HSV-1 ICP0 E3 ligase targets by mass spectrometry in neurons	93.853	432053-19799	Identification of novel HSV-1 ICP0 E3 ligase targets by mass spectrometry in neurons	28,166
<u>Passthrough- WASHINGTON STATE UNIVERSITY</u>				
The Collaborative on Health Reform and Independent Living	93.433	126140 SPC001414	90DP0075-05-00	96,567
Subtotal: Department of Health and Human Services- Passthrough				<u>10,028,268</u>
Total: Department of Health and Human Services				<u>43,110,077</u>
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		42,182
Subtotal: Department of Justice- Direct				<u>42,182</u>
Total: Department of Justice				<u>42,182</u>
Department of Transportation				
<u>Direct</u>				
Master Agreement - Center of Excellence for Unmanned Aircraft Systems FAA Cooperative Agreement	20.109	15-C-UAS-KU-01		138,224
Development of Training for Local Transportation Agencies on the Use of Unmanned Aircraft Systems	20.200	RE-0786-01		3,943
Kansas LTAP Smartphone Application	20.200	RE-0825-01		27,270
Create Webinar Series Geared Toward Local Emerging Topics and Innovations	20.200	RE-0826-01		2,307
Law Enforcement Radar	20.200	RE-0845-01		4,426
Subtotal for CFDA No. 20.200				<u>37,946</u>
SDDOT Maintenance Decision Support System (MDSS) Operation Plan	20.205	PO-0000019616		8,701
Construction of Low-Cracking High-Performance Bridge Decks Incorporating New Technology - 2019	20.205	RE-0778-01		99,305
Phase III Iowa Pore Index: Morphometric Properties of Aggregates	20.205	20-SPR1-003		27,570
Robust Wireless Skin Sensor Networks for Long-term Fatigue Crack Monitoring of Bridges	20.205	022355B		44,392
Subtotal for CFDA No. 20.205				<u>179,968</u>

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Research and development cluster (Continued)				
Department of Transportation (Continued)				
<u>Direct</u>				
2016 Work Zone and Guardrail Safety Training Grant	20.215	436-17-35C		\$ 88,894
University Transportation Centers Open Competition 2016	20.701	25-1121-0005-150		34,882
Self De-icing LED Signals	20.000	RE-0721-01		48,816
Thrive Allen county Planning and Research Support	20.000			4,615
Subtotal for CFDA No. 20.200				<u>53,431</u>
Subtotal: Department of Transportation- Direct				<u>533,345</u>
<u>Passthrough- KANSAS DEPARTMENT OF TRANSPORTATION</u>				
Kansas Field Guide for Rural Roads Update	20.200	RE-0824-01	693JJ22040000Z374KS R082401	6,736
Online Interactive Crash Dashboard	20.200	RE-844-01	Hlghway Research and Development Program	152
Purchase and Implementation of a Learning Management System (LMS)	20.215	RE0805-01 STIC- R080(501)	State Transportation Innovation Council	20,695
<u>Passthrough- OK DEPARTMENT OF TRANSPORTATION</u>				
Evaluating the Performance of Existing Reinforcement for Oklahoma Bridges	20.200	SPRY-0010(082)RS	Evaluating the Performance of Existing Reinforcement for Oklahoma Bridges	60,249
<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	120,480
<u>Passthrough- UNIVERSITY OF NEBRASKA - LINCOLN</u>				
University Transportation Centers Open Competition	20.701	25-1121-0005-151	69A3551747107	142,146
Subtotal: Department of Transportation- Passthrough				<u>350,458</u>
Total: Department of Transportation				<u>883,803</u>
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		7,065
Fouling-resistant, Self-decontaminating Membranes for Effective Desalination of Oily Saline Wastewater	15.506	R17AC00132		1,458
Community For Data Integration (CDI)	15.808	G20AC00122		38,783
Geologic Mapping in Kansas for FY19	15.810	G19AC00231		26,410
Geologic Mapping in Kansas for FY20	15.810	G20AC00241		308,073
Subtotal for CFDA No. 15.810				<u>334,483</u>
Preservation of Kansas Oil and Gas Well Geologic Data, Records, and Samples, and Aerial Photographs, FY2019	15.814	G19AP00094		20,780
Preserving Kansas Geologic Data, Documents, Samples, and Aerial Photographs; and Surveying Critical Mineral Resources, FY 2020	15.814	G20AP00107		69,419
Subtotal for CFDA No. 15.814				<u>90,199</u>
Maintain existing and expand Kansas-based data services to the NGWMN.	15.980	G19AC00191		21,388
Long Term Property Curation with the University of Kansas	15.000	14OR6018P0054		22,308
Subtotal: Department of the Interior- Direct				<u>515,684</u>
<u>Passthrough- AMERICAVIEW INC.</u>				
StateView Program Development and Operations for the State of Kansas	15.815	AV18-KS-01	G18AP00077	24,273
<u>Passthrough- COLORADO STATE UNIVERSITY</u>				
Prairie Dog Mapping Project	15.611	G-63714-03	F18AF00409 / W-109-R- 1	5,816
<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	542

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Research and development cluster (Continued)				
Department of the Interior (Continued)				
<u>Passthrough- KANSAS DEPARTMENT OF WILDLIFE PARKANSAS & TOURISM</u>				
Geographic Information System (GIS) & Remote Sensing Support Services	15.611			\$ 188,872
<u>Passthrough- KANSAS WATER RESOURCES INSTITUTE</u>				
Does nutrient form control harmful algal bloom (HAB) toxin release?	15.805	S18154	G16AP00054	2,591
Simulating the effects of reservoir management strategies on in-stream sediment load, streambank stability, and water quality	15.805	A00-02310S008	G16AP00054	4,051
Spatial variability and subsurface controls of groundwater recharge and nutrient mobilization in dry streams	15.805	A00-0231-S009	G16AP00054	20,788
Benthic cyanobacterial mats: A potential source of harmful and nuisance compounds to Kansas streams	15.805	A00-0231-S007	G16AP00054	19,597
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	14,319
<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	38,643
Subtotal: Department of the Interior- Passthrough				319,492
Total: Department of the Interior				835,176
Department of the Treasury				
<u>Direct</u>				
COVID-19: Wastewater Sampling and Analysis in Metro KC	21.019	21020 - contract # 48567 UKCR		30,000
COVID-19 CARES Act Team collaboration	21.019	AWD-001981		11,593
Subtotal: Department of the Treasury- Direct				41,593
Total: Department of the Treasury				41,593
Institute of Museum and Library Services				
<u>Direct</u>				
Illegal Emigration: Soviet Defectors and the Borders of the Cold War World	45.160	FEL-262095-19		30,000
Bright Circle: Five Remarkable Women in the Age of Transcendentalism	45.160	FZ-271922-20		60,000
Gothic Manuscripts, 1320-1390	45.160	FEL-273019-21		30,000
Subtotal for CFDA No. 45.160				120,000
Advancing Research Collaboration in the Humanities	45.130	CH-50951		425,000
Humanities Challenge Project II	45.130	CH-20811		521,125
Subtotal for CFDA No. 45.130				946,125
Subtotal: Institute of Museum and Library Services- Direct				1,066,125
Total: Institute of Museum and Library Services				1,066,125
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		399,399
Controls on Iceberg Distribution Around Greenland	43.001	NNX16AJ90G		858
What Shapes the Passive Galaxy Population in Distant Clusters? Understanding the Role of Quenching and Merging with a Spitzer Archival Study	43.001	80NSSC19K0592		76,995
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	80NSSC20K0776		4,789
AGILE: Advanced enerGetic Ion eLectron tElescope	43.001	80NSSC19K0714		211,967
Global Satellite-Based Prediction of Drought Evolution	43.001	80NSSC20K1799		28,575
Ultra-high Energy Particle Astrophysics with ANITA-V - University of Kansas Center for Research, Inc. (Co-I)	43.001	80NSSC19K1072		18,525

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Research and development cluster (Continued)				
National Aeronautics and Space Administration (Continued)				
<u>Direct</u>				
A feasibility study of Raman optical activity for the detection and discrimination of chiral biological compounds for planetary science instrumentation	43.001	80NSSC20K1093		\$ 50,802
Operational Multichannel Snow Radar for Swath Mapping of Snow Layers on Ice Sheets, Sea Ice, and Land	43.001	80NSSC20K1242		240,160
How Do Undetected AGN Affect Galaxy Evolution?	43.001	80NSSC20K1546		16,244
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		261,472
Subtotal for CFDA No. 43.001				1,309,786
Development of an integrated system for cell analysis and profiling by capillary electrophoresis-mass spectrometry	43.012	80NSSC20K1208		46,135
Subtotal: National Aeronautics and Space Administration-Direct				1,355,921
<u>Passthrough- AMHERST COLLEGE</u>				
Multipass and tomography enabled data products for subsurface characterization and ice sheet model refinement	43.001	GRT00206-K1	80NSSC21K0753	3,491
<u>Passthrough- COLUMBIA UNIVERSITY</u>				
MoonDB Phase 2: Restoration of Lunar Geochronological and Lunar Meteorite Data	43.001	2(GG013230)	80NSSC18K0514	(607)
<u>Passthrough- DARCORPORATION</u>				
Learning Autopilot Systems for Unmanned Aerial Systems	43.000	22952	80NSSC19C0102	117,717
<u>Passthrough- GEORGIA INSTITUTE OF TECHNOLOGY</u>				
Oceans Across Space and Time	43.001	AWD-102551-G3	80NSSC18K1301	46,555
<u>Passthrough- JET PROPULSION LAB - CALIFORNIA TECHNOLOGY</u>				
Spitzer Transits of New TESS Planets	43.001	1646728	Prime Contract	26,055
Isotopic Abundances of JWST's Terrestrial Exoplanet Host Stars	43.001	1652699		1,529
Uniform Stellar Abundances of JWST Exoplanet Hosts and TKS'2: TESS-Keck Stellar Spectroscopy	43.001	1659480		1,523
<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	23,524
<u>Passthrough- SMITHSONIAN ASTROPHYSICAL OBSERVATORY</u>				
Does Excess Mid-Infrared Emission Reliably Signal an AGN?	43.001	AR0-21012X	NAS8-03060	26,281
<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	1,457
Exploring the Demographics of Exo-Neptunes: Atmospheric Characterization of a Cool Sub-Neptune from TESS	43.000	HST-GO-16181.002-A		1,498
GOGREEN Survey: The Relationship between Quenching, Morphological Transformation and Size Growth of Satellite Galaxies	43.000	HST-GO-15294.012-A	NAS5-26555.	12,941
Obscured CANDELS: Disentangling Obscuration around Supermassive Black Holes in the Distant Universe	43.000	HST-AR-16137.006-A		12,419
The Atmospheric Diversity of Mini-Neptunes in Multi-planet Systems	43.000	HST-GO-15333.018-A	NAS5-26555	32,079
The role of quenching and merging in shaping the passive galaxy population	43.000	HST-AR-14310.001-A		24,301
<u>Passthrough- UNIVERSITIES SPACE RESEARCH ASSOCIATION (USRA)</u>				
Searching for Torus Emission in Cold Quasars	43.000	SOF 07-0096	NNA17BF53C	50,479
<u>Passthrough- UNIVERSITY OF COLORADO</u>				
Do Habitable Worlds Require Magnetic Fields	43.001	1559320	80NSSC20K0594	69,509
Participation in NASA Mars Atmosphere and Evolution mission	43.000	1546525	NNH1OCCO4C	146,032
Participation in NASA Mars Atmosphere and Evolution mission	43.000	1546525	NNH1OCCO4C	(100)

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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	\$ 30,173
<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	26,262
<u>Passthrough- UNIVERSITY OF WASHINGTON</u>				
Fjord systems, marine mammals, and subsistence hunting in East Greenland	43.001	UWSC12177	80NSSC20K1361	27,095
<u>Passthrough- WICHITA STATE UNIVERSITY</u>				
17-EPSCoRProp-0037, Efficient and Compact Thermal and Water Management Systems using Novel Capillary Structure for Space Technology	43.008	WSU#15675-1		34,251
Development of Next-Generation Acoustic Liners for Aircraft Engine Noise Reduction	43.008	20-00255		42,378
MICE: A High Power Density Free Piston Engine	43.008	R52123-21-00864	80NSSC19M0042	29,533
National Space Grant Consortium College and Fellowship - Opportunities in NASA STEM FY 2020	43.008	R52545-21-00934	80NSSC10M0109	13,071
Ultrathin, Self-Healable Electrolyte for Solid State Lithium Batteries	43.008	20-02314		3,601
An Active Learning Framework for Increasing Generalizability of Machine Learning Models	43.008	R52536-20-02738	80NSSC20M0160	98,209
Artificial Intelligence Assisted Spacecraft Trajectory Optimization and Planning	43.008	R52638-21-00689	80NSSC20M0217	1,296
MICE: A High Power Density Free Piston Engine	43.008	R52146-21-00865	80NSSC19M0042	3,549
Appendix C: SMD Earth Sciences Division: Assimilation of Satellite Data for Predicting Cyanohabs in Kansas	43.008		NNH21ZHA002C	4,097
National Space Grant College and Fellowship Program Training Grant FY 2019-2020	43.008	9702-7-3-16241	NNX15AJ97H	40,191
NASA Eyes, Kansas Minds	43.008	9703-2-1693	NNX15AJ97H	(915)
Subtotal: National Aeronautics and Space Administration-Passthrough				949,470
Total: National Aeronautics and Space Administration				2,305,391
National Science Foundation				
<u>Direct</u>				
Biomechanical Rehabilitation Engineering Advancement in Kansas	47.041	CBET-1160130		60
SusChEM: Novel Electrochemical CO2 Conversion Systems with CO2-Expanded Liquids	47.041	CBET-1605524		15,294
WERF: Determining the fate and major removal mechanisms of microplastics in water and resource recovery facilities	47.041	CBET-001707069		13,237
Non-classical Micromorphic Continuum Model for Granular Microstructure Design	47.041	CMMI-1727433		88,279
CAREER: Pore-Scale Multiphase Mass Transfer in Porous Electrodes	47.041	CBET-1941083		11,363
FEWtures: Innovation Analysis Framework for Resilient Futures, with Application to the Central Arkansas River Basin	47.041	CBET-1856084		366,129
CAREER: Advanced Thermal Management of Lithium-Ion Battery Packs: Combining Physics-Based and Machine Learning Models toward High Thermal Safety	47.041	CMMI-1847651		66,289
Collaborative Research: Development of Atomically Thin Tunnel Barriers for High-Performance Tunnel Junctions	47.041	ECCS-1809293		84,259
CAREER: Quantification of the kinetic energy of particles in complex flows using magnetic particle tracking	47.041	CBET-1944187		35,136
CAREER: Spectrokinetic Studies for Understanding Metal-Support Interactions in Catalytic Oxidation of Ethanol	47.041	CBET-1847655		88,964
Assessing the Influence of Hazard Mitigation Planning on Disaster Recovery	47.041	CMMI-1760183		81,434

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
RET Site: Exploring Career Opportunities through Water- Themed Engineering Research (ECO-WaTER)	47.041	EEC1801710	\$	54,029
Engineering the Ionic Polymer Phase-Fluid Interface of the PEM Fuel Cell Catalyst Layer for Higher Performance	47.041	CBET-1803058		50,602
Control of Reconfigurable Battery Energy Storage Systems	47.041	CMMI-1763093		95,676
CAREER: Integrated Modeling of Hazard Mitigation Stakeholder Networks for Compassionate, Sustainable Risk Reduction	47.041	CMMI-1751696		84,702
EAGER: Suppressing Lithium Dendrite Growth by Functionally Graded Materials	47.041	CMMI-1840732		127,822
CAREER: Thermo-responsive absorbent with selective absorption for miscible liquids separation	47.041	CBET-1944314		87,225
Planning Grant: Engineering Research Center for Intelligent Infrastructure for Safe, Efficient and Resilient Mobility (ERC- I2SERM)	47.041	EEC-1840432		8,124
CAREER: Assessing the Role of Buildings and Organizations in Community Disaster Resilience	47.041	CMMI-1847373		105,339
REU SITE: IDEA Incubator for Porous Materials: Integrating Discovery, Engineering and Art	47.041	EEC-1852308		73,114
RAPID: 2018 Hurricane Season: Assessing the performance of elevated wood buildings, including manufactured housing, in the wake of Hurricane Michael	47.041	CMMI-1903486		6,949
PFI-RP: Development of Continuous Process Concepts for Upgrading Lignin in Biorefineries	47.041	IIP-1919267		185,830
Collaborative Research: Development and Application of a Molecular an Process Design Framework for the Separation of Hydrofluorocarbo Mixtures	47.041	CBET-1917480		62,566
MRI: Acquisition of an Advanced Gravimetric Analyzer for Material Research at KU-Lawrence	47.041	CBET-1920252		300,977
EFRI DChem: Next-generation Low Global Warming Refrigerants	47.041	EFMA-2029354		153,809
Manipulating Mycorrhizal Fungi: Plant Symbionts in Organic Agriculture	47.041	IIP-2016549		81,741
EAGER: High-Energy-Density Storage for Renewable Energy Sources for Environmental Sustainability	47.041	CBET-2024378		74,797
Subtotal for CFDA No. 47.041				2,403,746
Collaborative Research: Transmission of quantum information in circuits of superconducting qubits	47.049	PHY-1314861		-
CAREER: Understanding the role of quantum coherence in excitontransport and separation in molecular aggregates	47.049	DMR-1351716		10,567
Studies in Adaptive and Optimal Control of Stochastic Systems	47.049	DMS-1411412		23
CAREER: Innovative Strategies for Fluorination of Common Functional Groups	47.049	CHE-1455163		11,784
Topics in Algebraic Geometry: Gromov-Witten Theory and Donaldson-Thomas Theory	47.049	DMS-1600997		98
Probing and manipulating strained interfaces with oxide superconductors	47.049	DMR-1508494		10,534
Novel transport phenomena in two-dimensional crystals beyond graphene	47.049	DMR-1505852		11,631
Collaborative Research: Mapping and Tracking Conformational Control of Nitric Oxide Synthase Activation	47.049	CHE-1710613		40,864
REU Site: A Summer Experience for Undergraduates Integrating Research, Education, and Career Development in an Interdisciplinary Environment	47.049	CHE-1560279		630
CAREER: First Principles Evaluation of Optical Activity in Solids	47.049	CHE-1650942		94,665
Electronic Structure and Reactivity of Peroxo- and Hydroxomanganese Compounds	47.049	CHE-1565661		5,055
Existence, Stability and Dynamics of Nonlinear Waves	47.049	DMS-1614785		3,226
Collaborative research: Modelling and inference for spatiotemporal climate impacts on complex ecosystems	47.049	DMS-1714195		121,458

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Stability of solitary waves in dynamical systems	47.049	DMS-1614734	\$	-
U.S. CMS Operations at the Large Hadron Collider	47.049	SUB0000197		538
Single Molecule Electrophoresis using Nanochannel Columns Fabricated in Thermoplastics	47.049	CHE-1660002		63
System of hyperbolic conservation laws and nonlinear wave equations	47.049	DMS-1715012		9,676
New algorithms to enable faster, more accurate analysis of hydrogen exchange mass spectrometry data	47.049	CHE-1709176		98,845
INFEWS N/P/H2O: Supramolecular Recognition and Catalysis				118,123
Targeting Phytate, an Organic Sink for Phosphate in the Human Phosphorus Cycle	47.049	CHE-1710535		
Collaborative Research: The Effect of Filaments on the Gas in Galaxies	47.049	AST-1716690		66,489
Adaptive Data Assimilation for Nonlinear, Non-Gaussian, and High-Dimensional Combustion Problems on Supercomputers	47.049	DMS1723066		25,912
Dynamic elements: effects of co-solvents on peptide folding pathways	47.049	CHE-1807852		154,542
Ultrafast Dynamics of Highly Excited Molecules in the Condensed Phase	47.049	CHE-1956387		99,725
Design of oligozulene-based organometallics for probing new paradigms in charge delocalization, transport, and storage at the nanoscopic scale	47.049	CHE-1808120		57,165
CAREER: New frontiers for Frobenius, singularity theory, differential operators, and local cohomology	47.049	DMS-1945611		26,205
Removing the Barriers to the Calculation of Activation Energies, Activation Volumes, and Mechanistic Insight for Chemical Dynamics	47.049	CHE-1800559		149,633
Synthesis via Decarboxylative Activation	47.049	CHE-1800147		115,475
Stochastic Analysis and Asymptotic Problems	47.049	DMS-1811181		87,792
Periodic KPZ Universality	47.049	DMS-1953687		33,616
Collaborative Research: Extreme Starbursts and Outflows: The Formation of Massive Compact Galaxies	47.049	AST-1814159		13,996
Novel Computational Mathematics for Aperiodic Multilayers	47.049	DMS-1819220		13,301
Geometric and Electronic Structure Contributions to Bond- breaking and Bond-making Reactions of Mid-valent Manganese-Oxygen Complexes	47.049	CHE-1900384		95,748
Broadband Two-Photon Absorption Spectroscopy for High- Repetition Rate Lasers	47.049	CHE-1905334		70,502
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		45,713
A study of hypersurfaces in general position inspired by Frobenius	47.049	DMS-1902321		32,057
Dynamics and stability of nonlinear waves	47.049	DMS-1908626		41,005
Particle Physics at the Energy Frontier with the CMS Experiment	47.049	PHY-1913886		180,996
Collaborative Research: WoU-MMA: The Radar Echo Telescope for Cosmic Rays and Neutrinos: Toward a Transformative Technology for Neutrino Detection	47.049	PHY-2012989		3,046
Engineering interfaces for high-performance oxide superconductor nanocomposite films	47.049	DMR-1909292		113,776
CAREER: Probing the High Energy Frontier with the CMS Experiment	47.049	PHY-1945038		71,339
REU Site: A Summer Experience for Undergraduates Integrating Research, Education, and Career Development in an Interdisciplinary Environment	47.049	CHE-1950293		14,824
Large Solutions for Systems of Hyperbolic Conservation Laws and Wave Equations in One and Multiple Space Dimensions	47.049	DMS-2008504		43,473
Collaborative Research: WoU-MMA. Extreme Quantum- Electrodynamic and General-Relativistic Plasma Physics	47.049	PHY-2010109		46,024

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: WoU-MMA: Askaryan Radio Array: The world's forefront neutrino astrophysics program from 100 PeV	47.049	PHY-2012951		\$ 48,459
Particle Physics at the Energy Frontier with the CMS Experiment	47.049	PHY-2013007		165,819
COVID-19 RAPID: COVID-19 Behavior, perception, and control across geographic and economic gradients	47.049	DMS-2028297		(377)
COVID-19 RAPID: COVID-19 Behavior, perception, and control across geographic and economic gradients	47.049	DMS-2028297		117,067
Apples to Apples: Comparing the Cores of Nearby Galaxies Subtotal for CFDA No. 47.049	47.049	2115428		10,547
				2,481,649
CAREER: Improving Understanding of Antarctic Glacier Dynamics Through an Interactive Numerical Flowline Model	47.050	OPP-1255488		27,865
RCN: Facilitating Indigenous Research, Science and Technology (FIRST)	47.050	PLR-1417767		32,619
Collaboratively Harnessing Indigenous Research Principles, Protocols, and Practices (CHIRP3)	47.050	PLR-1436506		2,789
Effects of Anthropogenic Habitat Perturbation on Rodent Population Dynamics and Risk of Rodent-Borne Diseases	47.050	TUL-HSC-428-12/13		(2)
Collaborative Research: Stability and Dynamics of Antarctic MarineOutlet Glaciers	47.050	PLR-1543530		65,382
Collaborative Research: Permian and Triassic Icehouse to Greenhouse Paleoenvironments and Paleobotany in the Shackleton Glacier Area, Antarctica	47.050	PLR-1443546		12,804
Collaborative Research: Experimental Investigation of Actinide Partitioning in Zircon and its Applications to Geochronology	47.050	EAR-1654637		46,099
INSPIRE: Forging new connections among mammalian evolution, climate change, and tectonics during the Eocene.	47.050	EAR-1543684		91,409
EarthCube Data Infrastructure: Collaborative Proposal: Development of an Integrated Data System for the Geological Field Sciences	47.050	ICER-1639734		42,568
EarthCube Data Infrastructure: Collaborative Proposal: A unified experimental-natural digital data system for analysis of rock microstructures	47.050	ICER-1639738		138,689
Collaborative Research: EAGER: The Language of the Forests: Gwich'inSeasonal Relationships to the Interior Alaska Boreal Forests	47.050	PLR-1650692		12,825
Collaborative Research: Mechanisms governing synoptic- scale, rapid cloud dissipation in subtropical marine low clouds	47.050	AGS-1656237		36,958
Collaborative Research: Topographic controls on Antarctic Ice Sheet grounding line behavior - integrating models and observations	47.050	OPP-1745055		84,961
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		74,135
Collaborative Research: Unearthing Antarctica's role in the Late Cretaceous evolution of flowering plants	47.050	OPP-1953993		7,522
CAREER: UAS-Based Radar Suite for Sounding and Mapping Glaciers	47.050	OPP-1848210		106,994
TESTING MODELS OF CALCITE MICROCRYSTAL DIAGENESIS TO PREDICT MICROPOROSITY DISTRIBUTION IN LIMESTONES	47.050	EAR-1916642		75,434
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		56,214
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		40,311
Collaborative Research: Dry Rifting In the Albertine-Rhino graben (DRIAR), Uganda	47.050	EAR-2021724		5,157

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
EarthCube Data Capabilities: Collaborative Proposal: Broadening Community Use and Adoption of StraboSpot	47.050	ICER-1928389	\$	282,882
CAREER: Continental Paleoenvironmental Responses to Carbon Cycle Perturbations During the mid-Cretaceous Greenhouse	47.050	EAR-1941017		150,701
Collaborative Research: EarthChem & SESAR - Data Infrastructure for Geochemistry and Earth Science Samples Communities	47.050	EAR-1948813		10,563
Collaborative Research: Network Cluster: Using Big Data approaches to assess ecohydrological resilience across scales.	47.050	EAR-2012080		144
Collaborative Research: Patterns, causes, and consequences of synchrony in giant kelp populations	47.050	OCE02023474		29,064
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		7,880
RAPID: Collaborative Research: Digitize a track, save a dinosaur!	47.050	EAR-2035530		1,408
Collaborative Research: Deployment of Seafloor Optical Fiber Strainmeters for the Detection of Slow Slip Events	47.050	OCE-2127938		13,122
Subtotal for CFDA No. 47.050				1,456,497
CAREER:Filling the Gaps in Domain-Specific Functional- Based Solutions High-Performance Execution	47.070	CCF-1350901		69,327
NeTS: Medium: Collaborative Research: Digital Subcarrier Multiplexed Networks: From the Core to the Access	47.070	CNS-1409853		4,053
CIF21 DIBBS: Middleware and High Performance Analytics Libraries for Scalable Data Science	47.070	BL-4848800-UK		4,340
RI: Medium: Active Sensing, Localization and Mapping in Dynamic Deformable Environments for Image-Guided Interventions	47.070	RES510815		1,183
SHF: Small: Collaborative Research: Explore, Understand, and Build a New Profiling Framework for Managed Language Virtual Machines	47.070	CCF-1619140		1,528
CSR: Small: The Deterministic Memory Approach for Predictable and High Performance Cyber Physical Systems	47.070	CNS-1718880		84,855
AF:Small:Collaborative Research: A Robust Framework for Overcoming the Tangled Mesh Problem	47.070	CCF-1717894		49,649
CAREER: Unifying Heterogeneity of Extreme-Scale Cyberinfrastructures for Higher Productivity and Performance Portability	47.070	OAC-1942973		23,987
CDS&E: Collaborative Research: A Computational Framework for Reconstructing and Visualizing Myocardial Active Stresses	47.070	OAC-1808553		67,843
CSR: Small: Collaborative Research: Real-Time Computing Infrastructure for Integrated CPU-GPU SoC Platforms	47.070			79,626
AF: Small: Collaborative Research: Effective numerical algorithms and software for nonlinear eigenvalue problems	47.070	CCF-1812927		15,266
Collaborative Research: Intelligent Solutions for Navigating Big Data from the Arctic and Antarctic	47.070	IIS-1838236		97,776
CRII: SaTC: Creating and Managing Structurally-Morphing IT Systems Moving Targets	47.070	CNS-1850406		59,724
EAGER: SaTC: Early-Stage Interdisciplinary Collaboration: A Sociotechnical Metrics Framework for Network and Security Operations Centers	47.070	CNS-1915824		67,175
Collaborative Research: CSL-MultiAD: Assessing Collaborative STEM Learning through Rich Information Flow based on Multi-Sensor Audio Diarization	47.070	IIS-1918012		94,886
SaTC: CORE: Small: Digital Homelessness in the Heartland: Safeguarding and Enhancing the Experiences of Public Internet Users	47.070	CNS-1946180		168,076
CRII: NeTS: Beyond PHY and Channel Measurements in Millimeter Wave: Towards Low-Overhead and Resilient Multi- hop Networking	47.070	CNS-1948511		70,947

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: CNS Core: Medium: Combating Latency and Dysconnectivity in mmWave Networks: From Theory to Implementation	47.070	CNS-1955561		\$ 19,619
Collaborative Research: CNS Core: Medium: RUI: Optics without Borders.	47.070	CNS-1956137		14,744
SII Planning: Developing a National Spectrum Innovation Initiative (SII) Center for Adaptive and Reconfigurable Wireless Technology	47.070	1001025-04		45,693
SCC-CIVIC-PG Track A: Connecting Underrepresented Youths with Employment Opportunities	47.070	CNS-2044022		10,473
Subtotal for CFDA No. 47.070				1,050,770
CAREER: Integrating phylogenetics and development to investigate character evolution in hydrozoans	47.074	DEB-0953571		(90)
Delineating the roles of rising CO2 and temperature on flowering time across pre-industrial through future conditions	47.074	IOS-1457236		91,086
Collaborative Research: Discovery and analysis in the cradle of speciation theory: biotic surveys of Melanesia's terrestrial vertebrates	47.074	DEB-1557053		35,494
CAREER: Teaching Modern Biodiversity Science from Fieldwork to Phylogeny: Diversity, Systematics, & Evolution of Ecologically Promiscuous Aquatic Beetles	47.074	DEB-1453452		87,071
ICOB: Molecular and morphological characterization of polar capsules in the parasitic Myxozoa	47.074	IOS-1321759		(407)
IOS Preliminary Proposal: COLLABORATIVE RESEARCH: Genetics and development of parallel pollination system evolution in Penstemon	47.074	IOS-1555418		69,503
Collaborative Research: Fire-Fungal-Plant Feedbacks in Pyrogenic Ecosystems	47.074	DEB-1557000		617
Evolutionary dynamics of collateral gene silencing by piRNA	47.074	MCB-1413532		911
Bridging observational, experimental and genomic insights on species and speciation through comparative analyses in a new vertebrate model systems	47.074	DEB-1457774		94,669
Collaborative Research: Hierarchical Functioning of River Macrosystems in Temperate Steppes - From Continental to Hydrogeomorphic Patch Scales	47.074	EF1442595		226,594
Collaborative Research: Connecting resources to enable large-scale biodiversity analyses	47.074	DBI-1458422		6
CNH-L: Scale-dependent feedbacks among protected areas and surrounding socio-ecological systems	47.074	1003088-01		9,309
DIMENSIONS: COLLABORATIVE RESEARCH: The evolution of pollination syndrome diversity in Penstemon	47.074	DEB-1542402		105,664
doseR: a novel linear modeling framework for dosage compensation analysis	47.074	DBI-1661454		48,477
Digitization TCN: Collaborative Research: The Cretaceous World: Digitizing Fossils to Reconstruct Evolving Ecosystems in the Western Interior Seaway	47.074	DBI-1602067		84,451
Contract Bid for NEON, Inc. RFP-0256-AQU Reaeration and Dissolved Gas Laboratory Analysis	47.074	1010-0345-000		-
Investigating novel functions of septate junction proteins during morphogenesis in Drosophila	47.074	IOS-1656835		23,501
Dimensions US-China: Collaborative Research: Microbe eco-evolutionary feedbacks as drivers of plant coexistence, diversity gradients, and overyielding	47.074	DEB-1738041		306,914
Reaeration and Dissolved Gas Laboratory Analysis	47.074	2010-0358-AQU		-
Collaborative Research: Ecological Dynamics of the Plant-Arbuscular Mycorrhizal Fungal Mutualism: Contribution to Plant Species turnover and Coexistence	47.074	DEB-1556664		39,234
RAPID: Decline and Resilience of White Ash Populations during an Emerald Ash Borer Invasion	47.074	IOS-1644618		14
LTREB Renewal: Long-term studies of secondary succession and community assembly in the prairie-forest ecotone of eastern Kansas	47.074	DEB-1655500		48,771

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Collaborative Research: Phylogenetic Systematics and the Evolution of Reproductive Innovation in an Adaptive Radiation of Limnodynastes Fanged Frogs	47.074	DEB-1654388	\$	11,834
DISSERTATION RESEARCH: Determining anucleated sperm function in Lepidoptera	47.074	DEB-1701931		5,651
Collaborative Research: Digitization TCN: oVert: Open Exploration of Vertebrate Diversity in 3D	47.074	DBI-1701932		6,560
Collaborative Research: ABI Development: Cultivating a sustainable Open Tree of Life	47.074	DBI-1759838		204,063
SG: Collaborative Research: Measuring intra-locus sexual conflict across the genome in a dioecious plant	47.074	DEB-1753630		728
CAREER: A Novel Bioinformatic Infrastructure for Metagenome Assembly and Functional Annotation	47.074	DBI-1943291		79,471
Reaeration and Dissolved Gas Laboratory Analysis	47.074	597225		57
Reaeration Analyses: SF6, Chloride, Bromide	47.074	US001-0000731738		8,144
Bilateral BBSRC-NSF/BIO: CIBR: Structural modeling of interactome to assess phenotypic effects of genetic variation	47.074	DBI-1917263		377,973
Collaborative Research: Cestode phylogeny and genomics: A spine for the spineless, gutless worms	47.074	DEB-1921411		66,843
Collaborative Research: SG: Clonality and the scope for adaptation in heterogeneous environments	47.074	DEB-1923495		27,822
Collaborative Proposal: MRA: Teleconnections Among Great Plains NEON Sites by Wind and Wing	47.074	DEB-1926596		56,580
CIBR: Collaborative Research: Integrating data communities with BiotaPhy: a computational platform for data-intensive biodiversity research and training	47.074	DBI-1930005		304,676
FSML: Enhancing research support infrastructure at the University of Kansas Field Station	47.074	DBI-1938412		15,943
Chromosomal inversions and gene expression in Mimulus	47.074	MCB-1940785		248,659
COLLABORATIVE RESEARCH: LTREB RENEWAL: The role of ecological heterogeneity in a long-term grassland restoration experiment	47.074	DEB-1922915		39,571
Workshop: Modern methods in microscopy: Elucidating the physical biology of the cell; Summers - 2020 and 2021; Lawrence, Kansas	47.074	MCB-2001870		57,045
Collaborative Proposal: Frameworks: Internet of Samples: Toward an Interdisciplinary Cyberinfrastructure for Material Samples	47.074			112,224
Collaborative Research: Network Cluster: Geomicrobiology and Biogeochemistry in the Critical Zone	47.074	EAR-2012633		33,839
BBSRC-NSF/BIO: A holistic approach to understand drought adaptation in plants, their symbionts, and free-living microbiomes	47.074	IOS-2016351		103,012
How genomic shock triggers transposition during hybrid dysgenesis	47.074	MCB-2025197		78,212
Collaborative Research: CSBR: Ownership Transfer: Living Stocks: International Culture Collection of Arbuscular Mycorrhizal Fungi (INVAM)	47.074	2027458		9,207
RESEARCH-PGR: Genetics and mechanisms of microbe-dependent heterosis	47.074	IOS-2033621		7,599
CAREER: The genetic mechanisms of sex-ratio meiotic drive and resistance	47.074	MCB-2047052		41,298
Subtotal for CFDA No. 47.074				3,168,800
Understanding Gender Differences in STEM Academic Careers	47.075	SES1538797		27,876
Challenging Notions of the "Ideal" Victim: Identifying and Stereotyping Human Trafficking in Rural Kansas and Missouri	47.075	SES-1624317		2
A Semantic Grammar of Kiowa - kio	47.075	BCS-1664431		6,573
Examining Native Language Variability and its Effects on Second Language Processing: An Event-Related Potentials Investigation of Referential Dependencies	47.075	BCS-1749143		52,854

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</u>				
Doctoral Dissertation Research: Broken Promises of Higher Education: Why Has the Meritocratic Power of Advanced Degrees Declined?	47.075			\$ 452
Neural Mechanisms for Phonological Alternation with High and Low Productivity	47.075	BCS-1826547		57,488
The Genetic History of the Aleut People	47.075	BCS-1849338		72,975
Collaborative Research: Comparing Single - vs. Double-Blind Review of Scientific Abstracts for Accuracy and Bias	47.075	SES-1824259		20,073
Learning to pronounce ethnic names as a means of improving inter-ethnic interaction	47.075	BCS-1941684		62,040
Doctoral Dissertation Research: Examining the linguistic cues that guide prediction in the processing of Mandarin relative clauses: An ERP study	47.075			84
Collaborative Research: The Effect of State Disinvestment in Higher Education on Research Quality and Returns to Scale in Science Funding	47.075	SMA-1854849		31,999
Doctoral Dissertation Research: Lifestyle Migrants and the Economics of Integration in Caribbean Costa Rica	47.075	1904244		410
Doctoral Dissertation Research: Lexical Acoustics	47.075	BCS-1918404		864
Conferences to Strengthen the Kansas Health Economics Community	47.075	SES-1941552		3,921
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		1,053
Enhancing the Perception and Recognition of Spoken Words in a Second Language: A Cue-Weighting Approach	47.075	BLS-2016750		29,825
Collaborative Research: Assessing the Impact of Lead Agency Cross-Functional Authority on City Sustainability Outcomes	47.075	SES-2021044		36,674
RAPID: Understanding the Experiences of Public Internet Users during the Novel Corona Virus Pandemic	47.075	SES-2037575		168,830
Collaborative Research: Dealing with Disruption: Investigating the Micro-level Underpinnings of City Response to the Climate Crisis	47.075	SES-2049917		6,615
Subtotal for CFDA No. 47.075				580,608
The Evidence Games: Collaborative Games Engaging Middle School Students in the Evaluation of Scientific Evidence	47.076	DRL-1019842		(2,721)
Deep Roots: Wide-Spread implementation of community-driven evidence-based Pedagogy	47.076	DUE-1525775		135,870
CyberCorps: New Scholarships for Service (SFS) Program at the University of Kansas - Jayhawk SFS	47.076	DGE-1565570		419,379
Collaborative Research: Transforming the Evaluation of Teaching: A Study of Institutional Change to Advance STEM Undergraduate Education	47.076	DUE-1726087		112,846
A Study in the Integration of Western Knowledge and Native American Knowledge Bases	47.076			806
Collaborative Research: Technology Education for Women in Transition: Broadening Participation Through Innovations	47.076	DRL-1907002		273,203
Accelerating Higher Order Thinking and STEM Content Learning Among Students w/Disabilities	47.076	UK090118-21		64,980
Collaborative Research: Cool Science: Art as a Vehicle for Intergenerational Learning	47.076	DRL-1906810		67,055
NRT-HDR: The Internet of Catalysis - Harnessing Data Science for Catalyst Design	47.076	DGE-1922649		444,614
Graduate Research Fellowship Program	47.076	DGE-1940699		509,167
COVID-19 RAPID: Collaborative Research: Electronic Mentoring to Address Challenges in Engineering Graduate Programs During thePandemic	47.076	DGE-2031069		21,843
Subtotal for CFDA No. 47.076				2,047,042

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Direct</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	\$	26,415
RII Track-2 FEC: Catalysis for Renewables: Applications, Fundamentals and Technologies (CRAFT)	47.079	OIA-1539105		39,153
RII Track-2 FEC: Improving Water Management, Treatment and Recovery in Oil and Gas Production	47.083	OIA-1632892		562,307
RII Track-1: Microbiomes of Aquatic, Plant and Soil Systems (MAPS) mediating sustainability: An observational and experimental network across Kansas	47.083	OIA-1656006		3,645,525
RII Track-4: Pore-Scale Transport Phenomena in Li-O2 Battery Electrodes Characterized by Nano-Tomography	47.083	OIA1833048		75,070
RII Track-4: Pulse Radiolysis Studies of H2 Generation by [Cp*Rh] Complexes to Characterize Design Rules for Improved Catalysts	47.083	OIA-1833087		70,166
RII Track-2 FEC: Marshalling Diverse Big Data Streams to Understand Risk of Tick-borne Diseases in the Great Plains	47.083	1920946		641,668
RII Track-2 FEC: Aquatic Intermittency effects on Microbiomes i Streams (AIMS)	47.083	OIA-2019603		294,349
Subtotal for CFDA No. 47.083				5,289,085
Subtotal: National Science Foundation- Direct				18,543,762
<u>Passthrough- AMERICAN PHYSICAL SOCIETY</u>				
PhysTEC: Building a Solution to the National Physics Teacher Shortage	47.049	PT-002-2019	PHY-1707990	36,847
<u>Passthrough- AVIUM LLC</u>				
SBIR Phase II: Dual Element Matrix (DEM) Water Electrolyzer	47.041	23926	1951216	47,193
<u>Passthrough- BATTELLE MEMORIAL INSTITUTE</u>				
Mosquito Taxonomic Identification	47.074	US001-0000598396	NEON	1
Mosquito Taxonomic Identification	47.000	US001-0000732907	NEON Cooperative Agreement	65,338
Dissolved Gas Analyses: CH4, CO2, N20	47.000	US001-0000732763	NEON Cooperative Agreement	43,441
<u>Passthrough- CARNEGIE MELLON UNIVERSITY</u>				
Dyadic Behavior Informatics for Psychotherapy Process and Outcome	47.075	1122586-438046	IIS-1722822	12,479
<u>Passthrough- COLUMBIA UNIVERSITY</u>				
Collaborative Research: IEDA 2016-2021: Operation of a Multi-Disciplinary Data Facility for the Earth Science Community	47.050	3(GG013108-01)	OCE-1636653	(21,266)
IEDA 2016-2021: Operation of a Multi-Disciplinary Data Facility for the Earth Science Community	47.050	3B(GG013106-07)	OCE-1636653	(7,388)
<u>Passthrough- CORNELL UNIVERSITY</u>				
U.S. CMS Upgrades for the HL-LHC	47.049	79433-20679	PHY-1946735	124,776
<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	76,399
<u>Passthrough- KANSAS STATE UNIVERSITY</u>				
Processes Influencing Community Assembly During Tallgrass Prairie Restoration	47.074	A00-0071-S008-A01	DEB-144084	18,127
LTER: Manipulating drivers to assess grassland resilience	47.074	A21-0332-S003	DEB-2025849	5,521
<u>Passthrough- KANSAS STATE UNIVERSITY SPA</u>				
Konza Prairie LTER: Grassland Dynamics and Long-Term Trajectories of Change	47.074	S15103	DEB-1440484	67,332
Konza Prairie LTER: Long Term Research on Grassland Dynamics and Global Change	47.074	S15099.02	DEB-1440484	1,504
<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)	10,175

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Research and development cluster (Continued)				
National Science Foundation (Continued)				
<u>Passthrough- NORTH DAKOTA STATE UNIVERSITY</u>				
House Sparrow Collections Across the Continental United States	47.074	FAR0033791	1845974	\$ 49,158
<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	22,100
<u>Passthrough- PENNSYLVANIA STATE UNIVERSITY</u>				
NSFPLR-NERC: Ground Geophysics Survey of Thwaites Glacier	47.050	5860-UKCR-NSF-8934	OPP-1738934	104,249
<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 21-05	OIA-2019597	32,404
<u>Passthrough- SRI INTERNATIONAL</u>				
Scientific Productivity Data of SDR Sample through Linkage: Expanded Manual Validation	47.000	PO20663	NSFDACS16C1234	-
<u>Passthrough- UNIVERSITY OF MISSOURI - KANSAS CITY</u>				
SCC-PG: Early Community Intervention for Neighborhood Revitalization	47.070	00104553/00068474	1951971	3,929
<u>Passthrough- UNIVERSITY OF NEW MEXICO</u>				
SII Planning: Spectrum-Agile Cognitive Communications for Terrestrial and Space Applications	47.049	271699-87R8	2037864	16,848
<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	5,218
<u>Passthrough- UNIVERSITY OF NOTRE DAME</u>				
QuarkNet center at the University of Kansas	47.049		PHY-1806631	600
<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	12,179
Subtotal: National Science Foundation- Passthrough				727,164
Total: National Science Foundation				19,270,926
Veterans Administration				
<u>Direct</u>				
Synthesis and Analysis of CCN5 PEGylated Proteins	64.000	IPA		4,946
Subtotal: Veterans Administration- Direct				4,946
Total: Veterans Administration				4,946
Environmental Protection Agency				
<u>Direct</u>				
Supplementation of USEPA's StreamCat dataset with stream stressor data from the Central Plains	66.000		Contact	5,000
Subtotal: Environmental Protection Agency- Direct				5,000
Total: Environmental Protection Agency				5,000
Total Research and development cluster				
				93,215,220

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TRIO Cluster				
Department of Education				
<u>Direct</u>				
University of Kansas TRIO Student Support Services - SES	84.042	P042A160846		\$ 366,742
University of Kansas TRIO Student Support Services-STEM	84.042	P042A150254		77,291
KU Student Support Services Science, Technology, Math, Engineering and Health Sciences (SSS STEM)	84.042	P042A201664		192,967
Subtotal for CFDA No. 84.042				637,000
University of Kansas Talent Search (KUTS)	84.044	P044A160170		517,094
				-
University of Kansas Math & Science Center	84.047	P047M170310		281,732
University of Kansas Upward Bound Math & Science (KU- UBMS)	84.047	P047M170490		249,346
University of Kansas Upward Bound Program	84.047	P047A180353		355,485
The University of Kansas Veterans Upward Bound Program	84.047	P047V180027		290,796
Subtotal for CFDA No. 84.047				1,177,359
University of Kansas EOC	84.066	P066A160048 - 20		301,619
University of Kansas EOC - Leavenworth and Franklin County	84.066	P066A160079		287,698
Subtotal for CFDA No. 84.066				589,317
McNair Scholars Program	84.217	P217A120075 - 16		(5)
McNair Scholars Program	84.217	P217A170081		320,304
Subtotal for CFDA No. 84.217				320,299
Subtotal: Department of Education- Direct				3,241,069
Total: Department of Education				3,241,069
Total TRIO Cluster				3,241,069
Special Education Cluster (IDEA)				
Department of Education (Continued)				
<u>Direct</u>				
Scaling-Up KSDE TASN Evaluation Proposal	84.027	652-15-1860		111,950
Missouri Post-Secondary Success Project	84.027			14,176
Subtotal: Department of Education- Direct				126,126
<u>Passthrough- MISSOURI DEPARTMENT - ELEMENTARY/SECONDARY ED</u>				
Missouri Post-Secondary Success Project/ Social-Emotional Learning for All	84.027		Special Education Grant	297,055
Subtotal: Department of Education- Passthrough				297,055
Total: Department of Education				423,181
Other Programs				
Department of Health and Human Services				
<u>Direct</u>				
KU-CPPR KDHE Needs Assessment	93.870			48,507
Wisconsin Family Foundations Home Visiting Shared Measurements System	93.870	437003-119-0001379		-
Home Visiting Data Collection and Management - Nebraska	93.870	88265-04		121,671
KDHE Master Agreement: Task Order 21002: Maternal, Infant and Early Childhood Home Visiting FY 19 Evaluation	93.870	KDHE_TO_21002		92,863
Subtotal for CFDA No. 93.870				263,041
Subtotal: Department of Health and Human Services- Direct				263,041
<u>Passthrough- KANSAS DEPARTMENT OF HEALTH & ENVIRONMT</u>				
Kansas Maternal Infant and Early Childhood Home Visiting - DAISEY	93.870		Performance Data Management Services for the Kansas Maternal, Infant and Early Childhood Home Visi	(598)
KU-CPPR KDHE Evaluation	93.870		X10MC32192	38,282
Kansas MIECHV Program	93.870		X10MC31142	-
Kansas Maternal Infant and Early Childhood Home Visiting - DAISEY	93.870	PO79002	HRSA-17-120	71,207
Maternal, Infant and Early Childhood Home Visiting, The Institute Learning Management System	93.870	TO 21018, contract 48567 UKCR	6 X10MC335810101	132,765
Maternal, Infant and Early Childhood Home Visiting DAISEY Date Management for FY20	93.870	21019, contract 48567 UKCR	1X10MC396870100	133,342
<u>Passthrough- WISCONSIN DEPARTMENT OF CHILDREN & FAMILIES</u>				
DAISEY (Data Application and Integration Solution for the Early Years) Home Visiting Shared Measurement System	93.870	437003-C20-0001518- 000-01	Maternal, Infant and Early Childhood Home Visiting Grant	124,727

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Other Programs (Continued)				
Wisconsin Family Foundations Home Visiting shared Measurements System	93.870	437003-C20-0001518- R01-01	Maternal, Infant and Early Childhood Home Visiting Grant Program	\$ 64,291
Subtotal: Department of Health and Human Services- Passthrough				564,016
Total: Department of Health and Human Services				827,057
				827,057
Department of Defense				
<u>Direct</u>				
Building Language Capacity and Cultural Competency to Meet National Security Needs: The University of Kansas Language Training Center	12.579	2603-KU-10-LTC052P08		(622)
GenCyber Summer Camp at the University of Kansas - Inspiring the Next Generation of Cyber Stars	12.903	H98230-19-1-0075		112
Building Language Capacity and Cultural Competency to Meet National Security Needs: The University of Kansas Language Training Center	12.900	PGO1801-KU-10-LTC- 052-PO3		3,491
University of Kansas IC Center for Academic Excellence (KU- ICCAE)	12.598	2020-20061700010		210,516
Army Educational Outreach Program (UNITE)	12.630			13,412
CFDA Unknown				
Peace Corps Recruitment Proposal for FY 2016 - 2018	12.000	PC-15-8-030		1
Subtotal: Department of Defense- Direct				226,910
<u>Passthrough-INSTITUTE FOR 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	318,975
Cost Reimbursement Umbrella Agreement for Prime Award Number H98210-18-2-0002	12.357	PGO1801-KU-10	H98210-18-2-0002	579,965
Subtotal: Department of Defense- Passthrough				898,940
Total: Department of Defense				1,125,850
				1,125,850
Department of Agriculture				
<u>Direct</u>				
SNAP Process and Technology Improvement Grant	10.580			108,037
Subtotal: Department of Agriculture- Direct				108,037
Total: Department of Agriculture				108,037
				108,037
Department of the Interior				
<u>Direct</u>				
DLM - Operational/Testing	15.000	44679		2,223
Subtotal: Department of the Interior- Direct				2,223
Total: Department of the Interior				2,223
				2,223
Department of Justice				
<u>Direct</u>				
Idaho Safe Schools, Safe Students	16.839	HC204400		5,735
U.S.P. LEAVENWORTH LEGAL ASSISTANCE PROGRAM	16.000	15B40819D00000033		81,874
Subtotal: Department of Justice- Direct				87,609
<u>Passthrough- KANSAS DEPARTMENT OF CORRECTIONS</u>				
Crawford County Juvenile Justice Community Engagement Initiative	16.540	PO26684	2018-JF-FX-0021	107,279
Subtotal: Department of Justice- Passthrough				107,279
Total: Department of Justice				194,888
				194,888
Department of State				
<u>Direct</u>				
Study of the U. S. Institutes for Student Leaders on Women's Leadership	19.009	S-ECAGD-18-CA-1040		135,489
2018 Friends of Fulbright Undergraduate Student Exchange Program	19.400			7,195
Subtotal: Department of State- Direct				142,684
<u>Passthrough- INSTITUTE FOR INTERNATIONAL EDUCATION</u>				
2019 Eight-Week Humbert H. Humphrey Fellowship Pre- Academic Training Program	19.010	HHH1801_UK_4.4.19	S-ECAGD-18-CA-1027	(11)
2021 Eight-Week Humbert H. Humphrey Fellowship Pre- Academic Training Program	19.010	3000213918	S-ECAGD-21-CA-3001, S-ECAGD-CA-20-0002	1,827
Subtotal: Department of State- Passthrough				1,816
Total: Department of State				144,500
				144,500

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Other Programs (Continued)				
Department of Transportation				
<u>Direct</u>				
Kansas Innovation Summit	20.200			\$ 5,218
Technical Services for the Kansas Rural Transit Assistance Program (RTAP) - FY 2020	20.509	PT-0511-40		(1,304)
FY 20:Traffic Assistance Services for Kansas (TASK) Program	20.215	A00-0662-S003		22,037
Technical Services for the Kansas Rural Transit Assistance Program (RTAP) – FY 2021	20.509	PT-0511-41		208,454
Transportation Safety Conferences 2013-2022	20.600	SA-0943-21		80,558
Biased-Based Policing Grant	20.611	RP-1911-17		(2,949)
Biased-Based Policing Grant	20.611	RP-1911-17		(11,222)
Subtotal for CFDA No. 20.611				<u>(14,171)</u>
Subtotal: Department of Transportation- Direct				<u>300,792</u>
<u>Passthrough- KANSAS DEPARTMENT OF TRANSPORTATION</u>				
Technology Transfer Program - FY 2020 Local Technical Assistance Program (LTAP)	20.215		Highway Training and Education Program	342,308
2021 Local Technical Assistance Program (LTAP)	20.215	RE-0255-21-LTAP-R025-521	RE-0255-21-LTAP-R025-521	299,706
Data Access and Support Center (DASC) GIS Mapping Integration	20.616	TR-2114-21	18X920405cKS15	132,802
<u>Passthrough- KANSAS DIVISION OF EMERGENCY MANAGMENT</u>				
Trainings to Kansas Counties through Kansas University Fire and Rescue Training Institute during the federal fiscal year 2019-2020	20.703		693JK31940016HMEP	10,448
Subtotal: Department of Transportation- Passthrough				<u>785,264</u>
Total: Department of Transportation				<u>1,086,056</u>
Department of the Treasury				
<u>Direct</u>				
VITA Grant Program	21.009	19VITA0229		2,917
VITA Grant Project	21.009	21VITA0165		20,148
Subtotal for CFDA No. 21.009				<u>23,065</u>
Radio Community Service Grant (CSG)	21.019			75,000
Technology for Families Fund Support	21.019			34,666
Digital Badging Enhancement	21.019		Coronavirus Relief Funds	26,606
Subtotal for CFDA No. 21.019				<u>136,272</u>
Subtotal: Department of the Treasury- Direct				<u>159,337</u>
<u>Passthrough- KANSAS CHILDREN'S CABINET AND TRUST FUND</u>				
Access to Care & Remote Learning Support for School-Aged Children	21.019	3753-3772 z424		278,476
<u>Passthrough- WYANDOTTE ECONOMIC DEVELOPMENT COUNCIL</u>				
WyCo Works	21.019	24257		46,485
Subtotal: Department of the Treasury- Passthrough				<u>324,961</u>
Total: Department of the Treasury				<u>484,298</u>
Federal Communications Commission				
<u>Direct</u>				
Kansas Deaf Blind Equipment Distribution--Assistive Technology for Kansans	32.000	DA 19-557		180,402
Subtotal: Federal Communications Commission- Direct				<u>180,402</u>
Total: Federal Communications Commission				<u>180,402</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Other Programs (Continued)				
Institute of Museum and Library Services				
<u>Direct</u>				
Exploring Marginalized Communities Through the Women's Voice	45.024	1854359-54-19		\$ -
Healing, Knowing, Seeing the Body - Robleto	45.024	1856869-44-20		43,663
KU Indigenous Culture Festival	45.024	1858768-55-20		13,535
Boarders that Define and Divide	45.024	1862250-54-20		2,680
Subtotal for CFDA No. 45.024				59,878
Dario Robleto Commission "The Aorta of an Archivist"	45.025	FY2021-00107567		15,000
To support infrastructure improvements to the Spencer Museum of Art's collection storage, freight elevator, and galleries.	45.130	CHA-261952-19		1,271
Hurston on the Horizon in the Past, Present, and Future	45.163	EH-272538-20		32,698
Spencer Art At Home: Sustaining Public Access to Art, Ideas, and Experiences with the Spencer Museum of Art	45.164			150,000
Building Capacity for Diversity, Equity, Access, and Inclusion at the Spencer Museum of Art	45.301	MA-40-19-0377-19		32,250
Subtotal: Institute of Museum and Library Services- Direct				291,097
<u>Passthrough- KANSAS DEPARTMENT OF COMMERCE & HOUSING</u>				
Dario Robleto Artist Residency for the Healing, Knowing, Seeing the Body Exhibition	45.025		Promotion of the Arts Partnership Agreement 1863412-61-20	2,500
Arts Integration Program	45.025	NFY20-013		12,000
<u>Passthrough- HUMANITIES KANSAS</u>				
Voices from Congressman Dole's Kansas, 1960-1968	45.129	220030MJ	SO-253126-17	7,433
Faith in the Free State Podcast	45.129	221008MJ	SO-268871-20	1,515
<u>Passthrough- NORTH CAROLINA STATE UNIVERSITY</u>				
Scholarly Communication Notebook	45.312	2019-2227-02	LG-36-19-0021-19	1,010
<u>Passthrough- CHILDRENS MUSEUM OF TACOMA</u>				
Evaluating Military Family Programming	45.312	22898	MG-80-19-0029-19	5,738
Subtotal: Institute of Museum and Library Services- Passthrough				30,196
Total: Institute of Museum and Library Services				321,293
Small Business Administration				
<u>Direct</u>				
University of Kansas Small Business Development Center - 2020 (Federal Funds)	59.037	2013	Cooperative Agreement	36,018
University of Kansas Small Business Development Center - 2021 (Federal Funds)	59.037	2113		28,984
Subtotal for CFDA No. 59.037				65,002
Subtotal: Small Business Administration- Direct				65,002
Total: Small Business Administration				65,002
Department of Education				
<u>Direct</u>				
Special Educator Technology-based Training for Trainers (SETTT) for Success	84.327	H327S200015		-
Sunflower Summer Program	84.425	652-21-2135		55,550
Support: Connecting Communities: Increasing Competencies in Less Commonly Taught Languages and Expanding Access to Latin American and Caribbean Studies	84.015	P015B180021		271,632
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	P015B180104-19		248,524
NRC: Building Global Competencies in the 21st Century: University of Kansas Center for East Asian Studies	84.015	P015A180095		194,553
Connecting Communities: Increasing Competencies in Less Commonly Taught Languages and Expanding Access to Latin American and Caribbean Studies	84.015	P015A180021		181,596
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	P015A180104		221,980
FLAS: Building Global Competencies in the 21st Century: University of Kansas Center for East Asian Studies	84.015	P015B1800950 - 20		268,022
Fostering Global Competency and Engagement in the Heartland: The University of Kansas Center for Russian, East European and Eurasian Studies	84.015	P015A200004		6,400
Subtotal for CFDA No. 84.015				1,392,707

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Other Programs (Continued)				
Department of Education (Continued)				
<u>Direct</u> \$				
MAAPS: Monitoring Advising Analytics as Predictors of Success: A Study Proposed by the University Innovation Alliance	84.116	SP00012139-05		39,899
Heartland College Assistance Migrant Program	84.149	S149A150007		114,232
Kansas Inservice Training System (KITS)-Infant and Toddler Expansion	84.181			(285)
Kansas Inservice Training System (KITS)-Infant and Toddler Expansion	84.181			248,400
Kansas Inservice Training System (KITS)-Infant and Toddler Expansion	84.181	KITS SY2021 Lindeman		211,352
Subtotal for CFDA No. 84.181				459,467
University of Kansas Open Language Resource Center	84.229	P229A1808008		170,179
Provide Professional Development and Associated Resources for the Strategic Instruction Model and Content Literacy Continuum	84.323			28,045
Post-Doctoral Research Training Program in Special Education: Response to Intervention (RTI) in Early Childhood	84.324	R32B120004 - 15		(239)
Post-Doctoral Research Training Program in Special Education: Evidence-Base	84.324	R324B180004		269,513
Postdoctoral Research Training in Special Education and Early Intervention	84.324	R324B200021 Act 1		7,137
Subtotal for CFDA No. 84.324				276,411
Culturally-Responsive Early Literacy Intervention (CRELI): American Indian/Alaskan Native	84.325	H325K130316 - 15		5,516
Leadership Training in Nondiscriminatory Special Education Policy and Practice	84.325	H325D150085		232,745
University of Kansas Project to Develop Responsive, Innovative, and Visionary Educators (KU-DRIVE), Type A	84.325	H325D150084-19		162,910
ALL-Together In Early Education (ALL-TIEE): Early Childhood Unified Masters Project	84.325	H325K160075		264,698
KU LEAP: Preparing Leaders to Create Ambitious Educational Programs for Students with Severe Disabilities: Beyond De Minimis	84.325	H325D180015 - 19		191,995
Preparing Leaders to Advocate for Inclusion in Early Childhood Education (KU-PLAI-ECE)	84.325	H325D180080		219,082
Project INSTRUCT (Inclusive INterdisciplinary Supports and Training for positive, Rigorous EdUcation and Communication Outcomes)	84.325	H325K200046		50,149
Project for Interprofessional Preparation-Early Childhood Intervention (PIP-ECI)	84.325	H32K200061		55,432
Subtotal for CFDA No. 84.325				1,182,527
University of Kansas Highland Park High School Cluster GEAR UP Program	84.334	P334A140114-19		287,211
GEAR UP, South Wichita Project	84.334	R51394		(3,593)
The University of Kansas KCKPS Gear Up Program	84.334	P334A170025 - 21		2,277,553
Evaluation of the Wichita North GEAR UP Program 2020-21	84.334	21-01414		26,100
Subtotal for CFDA No. 84.334				2,587,271
The University of Kansas Child Care Access Means Parents in School Program (KU-CCAMPIS)	84.335	P335A180137		118,886
Supporting Technology, Educators, and Parents for Upward Progress (STEP-UP)	84.365	T365Z170233		542,102
Sub-total: Department of Education- Direct				6,967,276
<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)	94,335

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Identifying Number</u>	<u>Passthrough Identifying Number</u>	<u>Amount</u>
Other Programs (Continued)				
Department of Education (Continued)				
<u>Passthrough- MISSOURI DEPARTMENT - ELEMENTARY/SECONDARY ED</u>				
<u>Passthrough- STANFORD UNIVERSITY</u>				
Leadership in Research and Teacher Preparation for System-wide Inclusive Education	84.325	62307368-154936	H325D190042	\$ 127,493
<u>Passthrough- UNIVERSITY OF NORTH CAROLINA CHARLOTTE</u>				
National Technical Assistance Center on Increasing Graduation and Improving Transition to Postsecondary Education and Careers for Students with Disabilities	84.326	20150079-03-UKS	H326E140004	197,802
National Technical Assistance Center on Transition for Students and Youth with Disabilities	84.326	20210128-05-UKS	H326E200003	133,324
<u>Passthrough- UNIVERSITY OF OREGON</u>				
Technical Assistance Center on Positive Behavioral Intervention and Supports V	84.326	282070J	H326S180001	149,803
<u>Passthrough- WICHITA STATE UNIVERSITY</u>				
WSU WEST WICHITA GEAR UP	84.334	20-01629	P334A170139	24,035
WSU Southeast Wichita GEAR UP Project Evaluation	84.334	20-01664	P334A170119	24,046
Wichita North GEAR UP Evaluation Services	84.334	20-00818 (North)	P334A140169-19	12,182
WSU South Wichita GEAR UP Evaluation Services	84.334	20-00818 (South)	P334A140169-19	13,777
GEAR UP, South Wichita Project 2020-21	84.334	21-01416	P334A140178	26,101
WSU WEST WICHITA GEAR UP 2020-21	84.334	21-00978	P334A170139	26,996
WSU Southeast Wichita GEAR UP Project Evaluation 2020-21	84.334	21-01044	P334A170119	26,449
Subtotal: Department of Education- Passthrough				856,343
Total: Department of Education				7,823,619
Department of Homeland Security				
<u>Direct</u>				
Assistance to Firefighters Grants (AFG) FY 2018	97.044	EMW-2017-FZ-00032		-
Assistance to Firefighters Grants (AFG) FY18	97.044	EMW-2018-FZ-00086		110,426
State Fire Training Systems Grant - 2020	97.043	EMW-2020-GR-00236-S01		7,070
Subtotal: Department of Homeland Security- Direct				117,496
Total: Department of Homeland Security				117,496
Total Other Programs				11,653,664
TOTAL EXPENDITURES OF FEDERAL AWARDS				\$ 109,360,191

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Program	CFDA Number	Amount Provided
Research & Development Cluster	Various	\$ 9,798,068
Study of the U. S. Institutes for Student Leaders on Women's Leadership	19.009	20,356
National Technical Assistance Center on Increasing Graduation and Improving Transition to Postsecondary Education and Careers for Students with Disabilities	84.326	42,561
Kansas Serves Native American Families - KSNAP	93.087	348,327
Kansas Program to Improve the Health of People with Mobility Limitations and Intellectual Disabilities	93.184	64,267
Kansas State Grant for Assistive Technology	93.464	81,860
Kansas Strong for Children and Families (Kansas Strong)	93.652	220,910
Equipment Exchange: Increasing Access to Durable Medical Equipment (DME)	93.778	109,953
Assisting Medicaid Beneficiaries in Accessing Assistive Technology (ATK)	93.779	100,024
Maternal, Infant and Early Childhood Home Visiting, The Institute Learning Management System	93.870	6,989
University of Kansas IC Center for Academic Excellence (KU-ICCAE)	12.598	12,072
NRT-HDR: The Internet of Catalysis - Harnessing Data Science for Catalyst Design	47.076	57,659
Cultivating Global Citizenship in the Heartland: The Kansas African Studies Center	84.015	3,196
Heartland College Assistance Migrant Program	84.149	37,988
The University of Kansas Child Care Access Means Parents in School Program (KU- CCAMPIS)	84.335	72,468
Supporting Technology, Educators, and Parents for Upward Progress (STEP-UP)	84.365	96,932
2019-2020: Kansas State Plan for Assistive Technology	93.464	97,614
Coming Together and Moving Forward: Supporting Integrated, Community-Based Transition in Kansas	93.632	12,772
Kansas University Center on Developmental Disabilities (KUCDD)	93.632	116,762
KU Post Baccalaureate Research Education Program (PREP)	93.859	8,462
University of Kansas/Haskell Indian Nations University IRACDA Project	93.859	22,378
Total		<u>\$ 11,331,618</u>

See accompanying notes to schedule.

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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, 2021. 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, 2021.

NOTE 5 - SUBTOTALS BY FEDERAL AGENCY AND CFDA

<u>Department</u>	<u>CFDA Number</u>	<u>Amount</u>
U.S. Department of Agriculture	10.001	\$ 1,870
	10.310	334,900
	10.580	108,037
	10.699	4,988
	10.902	<u>35,912</u>
		<u>485,707</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
U.S. Department of Commerce	11.303	\$ 154,890
	11.307	90,076
	11.431	22,857
	11.432	66,670
	11.459	226,217
	11.462	42,243
	11.609	72,113
	11.618	20,865
		<u>695,931</u>
U.S. Department of Defense	12.000	3,038,483
	12.300	279,403
	12.357	898,940
	12.420	1,105,490
	12.431	21,075
	12.579	(622)
	12.598	210,516
	12.630	26,037
	12.800	374,103
	12.900	3,491
	12.903	112
		<u>5,957,028</u>
U.S. Department of Education	84.015	1,392,707
	84.027	423,181
	84.042	637,000
	84.044	517,094
	84.047	1,177,359
	84.066	589,317
	84.116	5,089,780
	84.149	114,232
	84.181	459,467
	84.217	320,299
	84.229	170,179
	84.305	633,982
	84.323	204,534
	84.324	5,189,391
84.325	1,868,830	

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
U.S. Department of Education (Continued)		
	84.326	\$ 850,879
	84.327	1,784,036
	84.334	2,977,541
	84.335	118,886
	84.365	542,102
	84.368	597,100
	84.371	148,427
	84.407	176,485
	84.411	755,180
	84.418	(585)
	84.425	55,550
	84.326D	113,976
		26,906,929
U.S. Department of Energy		
	81.000	1,121,744
	81.049	2,020,060
	81.086	3,235
	81.087	256,437
	81.089	924,685
		4,326,161
U.S. Department of Health and Human Services		
	93.000	1,267,206
	93.048	14,227
	93.077	(1,001)
	93.086	43,879
	93.087	848,379
	93.110	656,236
	93.113	164,785
	93.121	226,154
	93.136	134,483
	93.137	25,454
	93.172	1,335
	93.173	1,194,308
	93.184	440,087
	93.226	114,194
	93.242	931,223
	93.243	131,860
	93.268	6,728

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
U.S. Department of Health and Human Services (Continued)		
	93.273	\$ 353,113
	93.279	138,571
	93.286	594,430
	93.310	476,149
	93.323	10,841
	93.325	63,395
	93.350	331,715
	93.351	270,376
	93.361	14,416
	93.393	8,065
	93.394	1,113,981
	93.395	372,365
	93.397	148,179
	93.424	1
	93.433	1,167,146
	93.434	2,644,865
	93.464	393,097
	93.556	117,156
	93.575	1,299,772
	93.590	223,224
	93.600	102,797
	93.630	31,610
	93.631	27,774
	93.632	672,934
	93.652	1,519,214
	93.658	851,695
	93.670	247,805
	93.732	436,871
	93.762	30,178
	93.775	1,819
	93.778	267,791
	93.779	100,024
	93.788	8,643
	93.793	170,914
	93.829	14,983
	93.837	3,796
	93.838	214,570
	93.839	34,617
	93.847	336,793
	93.853	1,307,930
	93.855	5,157,474

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
U.S. Department of Health and Human Services (Continued)		
	93.859	\$ 8,926,547
	93.865	2,831,101
	93.866	2,763,023
	93.867	371,550
	93.870	970,062
	93.877	30,982
	93.910	375,803
	93.991	44,323
	93.994	143,125
		<u>43,937,142</u>
U.S. Department of Justice		
	16.560	42,182
	16.839	5,735
	16.000	81,874
	16.540	107,279
		<u>237,070</u>
U.S. Department of Transportation		
	20.000	53,431
	20.106	120,480
	20.109	138,224
	20.200	110,301
	20.205	179,968
	20.215	773,640
	20.509	207,150
	20.600	80,558
	20.611	(14,171)
	20.616	132,802
	20.701	177,028
	20.703	10,448
		<u>1,969,859</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
U.S. Department of the Interior	15.000	\$ 24,531
	15.159	7,065
	15.506	1,458
	15.512	38,643
	15.611	194,688
	15.654	542
	15.805	61,346
	15.808	38,783
	15.810	334,483
	15.814	90,199
	15.815	24,273
	15.980	21,388
		<u>837,399</u>
 U.S. Department of the Treasury	 21.009	 <u>525,891</u>
Institute of Museum and Library Services	45.024	59,878.00
	45.025	29,500.00
	45.129	8,948.00
	45.130	947,396.00
	45.160	120,000.00
	45.163	32,698.00
	45.164	150,000.00
	45.301	32,250.00
	45.312	6,748.00
		<u>1,387,418</u>
National Aeronautics and Space Administration	43.000	422,347
	43.001	1,541,390
	43.008	295,523
	43.012	46,135
		<u>2,305,395</u>

(Continued)

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
Year ended June 30, 2021

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

Department	CFDA Number	Amount
National Science Foundation	47.000	\$ 108,779
	47.041	2,450,939
	47.049	2,660,720
	47.050	1,618,666
	47.070	1,054,699
	47.074	3,332,543
	47.075	593,087
	47.076	2,052,260
	47.078	26,415
	47.079	39,153
	47.083	5,333,654
Veterans Administration	64.000	<u>4,946</u>
Environmental Protection Agency	66.000	<u>5,000</u>
Department of State	19.009	135,489
	19.400	7,195
	19.010	1,816
		<u>144,500</u>
Federal Communications Commission	32.000	<u>180,402</u>
Small Business Administration	59.037	<u>65,002</u>
U.S. Department of Homeland Security	97.044	110,426
	97.043	7,070
		<u>117,496</u>
TOTAL		\$ <u>109,360,191</u>

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, 2021, 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 29, 2021.

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 entity's financial statements will not be prevented or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. 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)

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
September 29, 2021

FOR EACH MAJOR FEDERAL PROGRAM;
REPORT ON INTERNAL CONTROL OVER COMPLIANCE

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

Report on Compliance for Each Major Federal Program

We have audited the University of Kansas Center for Research, Inc.'s (the Center), a component unit of the University of Kansas, compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of Center's major federal programs for the year ended June 30, 2021. The Center's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditor's Responsibility

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

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

Opinion on Each Major Federal Program

In our opinion, the Center complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2021.

(Continued)

Report on Internal Control Over Compliance

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

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

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

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



Crowe LLP

Indianapolis, Indiana
September 29, 2021

UNIVERSITY OF KANSAS CENTER FOR RESEARCH, INC.
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
For the year ended June 30, 2021

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

Material weakness(es) identified? Yes No

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

Noncompliance material to financial statements noted? Yes No

Federal Awards

Internal Control over major programs:

Material weakness(es) identified? Yes No

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

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

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

Identification of major programs:

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

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

Auditee qualified as low-risk auditee? Yes No

SECTION 2 – FINANCIAL STATEMENT FINDINGS

None

SECTION 3 – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

None
