KANSAS STATE UNIVERSITY

Sponsored Research Awards

Research, scholarly, and creative activity and discovery at Kansas State University

July 1, 2019-June 30, 2020

October 7, 2020

Dear Colleague:

The Office of the Vice President for Research is pleased to provide the attached proposal/award activity report for the period July 1, 2019–June 30, 2020. We are presenting this annual report in a new format, making it easier for the user to search, compare, and collect information across the university. The complete, more detailed and interactive view of the report is available at k-state.edu/research/faculty/awards/reports.

Total extramural funding garnered by Kansas State University has increased for the fifth year in a row, for a net increase of 55% since fiscal year (FY) 2016. In FY 2020, our researchers obtained 1,137 awards for a record total of $199,132,973, a 13% increase over FY 2019.

These awards represented a 28% increase in Federal funding while maintaining our funding from state and local governments, private foundations, and industry sponsors.

Economic Development and Technology Transfer are significant focus areas for the growth of our strategic partnerships. On July 1, 2019, the historic K-State Research Foundation and the Institute for Commercialization merged to form Kansas State University Innovation Partners. This new entity better represents the organization's national leadership position in technology commercialization, economic development and corporate engagement. In its first year of operations, Innovation Partners facilitated **more than $3.2 million in total licensing revenue in FY 2020 and a record 35 license agreements** — four of those agreements with direct impact on the fight against COVID-19. At this writing, additional COVID-19 treatments continue to be developed, disclosed, licensed, and further tested and validated with corporate partners. Over the last decade, 24 companies and 600 employees have been attracted to the region.

This was an **all-around record year** for K-State research despite the pandemic in the last quarter of FY 2020. Our research faculty and staff are resilient and are responsible for making K-State a leader and primary contributor in the world innovation ecosystem.

If you have questions about the content of this report, please contact Paul Lowe at plowe@k-state.edu or 785-532-6804 or the RADAR team at radar@k-state.edu or 785-532-6804.

Sincerely,

Peter K. Dorhout, Ph.D.
Vice President for Research

Award amount and count
FY 2016-FY 2020

K-State's implementation of the new research administration system, Cayuse SP, allowed for a distinct count of award transactions while also allowing the appropriate allocation of credit to individual project team members. The previous years' reports, prior to the annual comparison above, presented a collaborative count in which each research contributing intellectual input was credited with a count for the purposes of allocating credit. The above annual award dollars reflect the funds obligated by the sponsor(s) within the fiscal year.

Expenditures (NSF HERD)

FY 2019 preliminary

- Business $7M
- National Science Foundation $16M
- National Aeronautic & Space ... $1M
- Health & Human Services $16M
- Department of Energy $8M
- Department of Defense $4M
- Department of Agriculture $23M
- Institutional $83M
- Nonprofit $8M
- State & Local Government $38M

$220M
$218M
$219M
$200M
$196M
$193M
$189M
$180M

FY2015   FY2016   FY2017   FY2018   FY2019
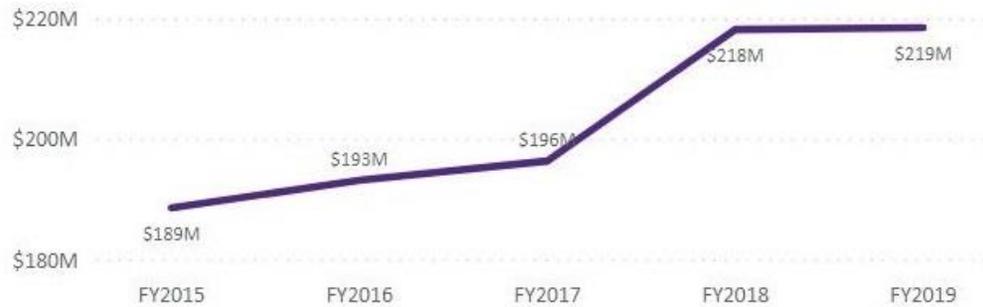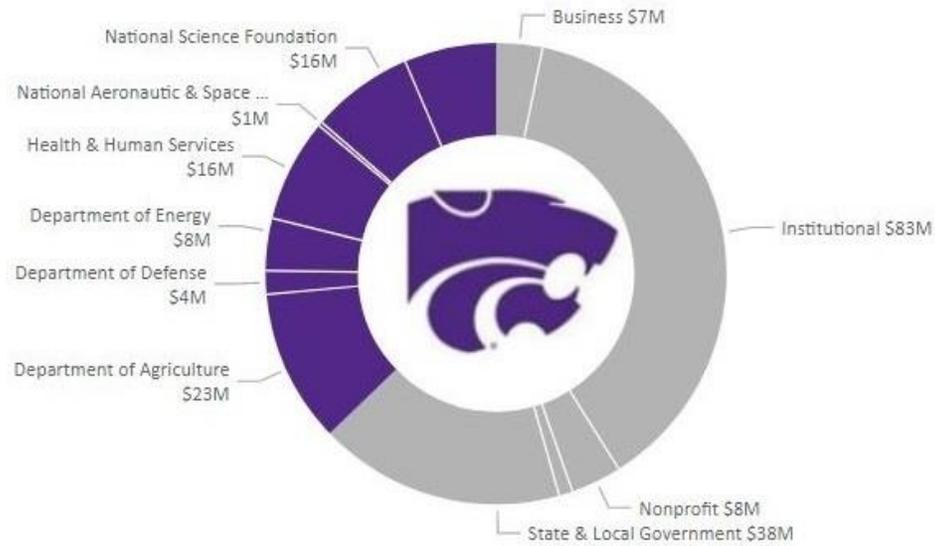
The HERD survey consists of the annual expenditures of more than 600 participating higher education institutions. The FY 2019 expenditures are the most up-to-date expenditures data published by the NSF HERD Survey. K-State has submitted its FY 2019 survey data; the data is considered preliminary until released by NSF.

Award summary by source
FY 2020

Source of Funds	Count	Amount	Percent of Total
⊟ **Federal**	**589**	**144,103,176**	**72.37%**
⊞ USDA - US Department of Agriculture	194	44,192,267	22.19%
⊞ NSF - National Science Foundation	107	21,602,044	10.85%
⊞ HHS - US Department of Health and Human Services	95	20,663,216	10.38%
⊞ US Education - US Department of Education	14	15,785,834	7.93%
⊞ USAID - United States Agency for International Development	25	13,994,222	7.03%
⊞ DOE - US Department of Energy	44	9,350,950	4.70%
⊞ DOD - US Department of Defense	36	6,794,387	3.41%
⊞ DOT - US Department of Transportation	14	4,089,079	2.05%
⊞ EPA - US Environmental Protection Agency	14	3,501,207	1.76%
⊞ DOI - US Department of the Interior	17	1,712,600	0.86%
⊞ NASA - National Aeronautics and Space Administration	9	627,639	0.32%
⊞ DHS - US Department of Homeland Security	3	593,719	0.30%
⊞ US Commerce - US Department of Commerce	5	551,245	0.28%
⊞ US State - US Department of State	5	463,441	0.23%
⊞ HUD - US Department of Housing and Urban Development	1	78,803	0.04%
⊞ Other Federal	5	72,132	0.04%
⊞ DHS - Federal Emergency Management Agency	1	30,391	0.02%
⊞ **Private (for profit)**	**142**	**26,744,142**	**13.43%**
⊞ **State**	**150**	**14,270,071**	**7.17%**
⊞ **Private (non-profit)**	**218**	**10,355,418**	**5.20%**
⊞ **Foreign**	**26**	**3,343,254**	**1.68%**
⊞ **Area/Local Government**	**11**	**316,912**	**0.16%**
⊞ **Kansas State University**	**1**	**0**	**0.00%**
Total	**1137**	**199,132,973**	**100.00%**

Donut chart labels: Area/Local Government 0M; State 14M; Private (non-profit) 10M; Private (for pr... 27M; Foreign 3M; Federal 144M
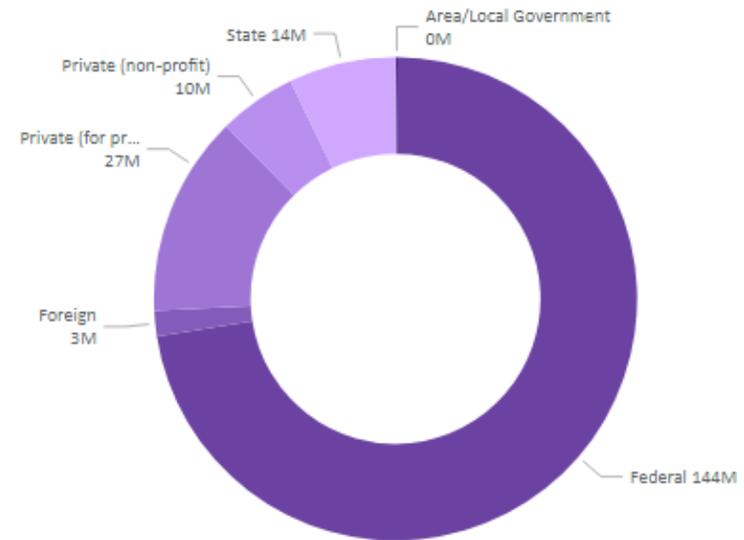
The above award summary by source represents the original sources of funding, regardless of the flow of these funds through an intermediary organization.

Award summary by unit
FY 2020

Unit	Count	Amount	Percent of Total
College of Agriculture	478	60,397,265	30.33%
College of Architecture, Planning and Design	13	133,351	0.07%
College of Arts and Sciences	216	50,535,891	25.38%
College of Business Administration	4	40,254	0.02%
College of Education	41	5,672,027	2.85%
College of Engineering	210	33,431,636	16.79%
College of Health and Human Sciences	34	6,928,170	3.48%
College of Veterinary Medicine	150	17,678,877	8.88%
Cooperative Extension Service	43	3,968,950	1.99%
Division of Communications and Marketing	2	44,250	0.02%
Graduate School	5	426,122	0.21%
Information Systems	2	7,237	0.00%
K-State Global	1	5,000	0.00%
K-State Libraries	1	5,000	0.00%
K-State Olathe	1	0	0.00%
K-State Polytechnic	24	2,200,892	1.11%
Office of the President	1	1,760	0.00%
Office of the Provost	19	14,222,026	7.14%
School of Leadership Studies	5	343,933	0.17%
University Operations	3	13,102	0.01%
Vice President for Research	23	1,360,005	0.68%
Vice President for Student Life and Dean of Students	15	1,717,225	0.86%
Total	1137	199,132,973	100.00%

Donut chart labels: Office of the Provost 14M; Cooperati... 4M; College of Veteri... 18M; College of... 7M; College of Engineer... 33M; College of Business Administrati... 0M; College of Agriculture 60M; College of ... 0M; College of Arts and Sciences 51M
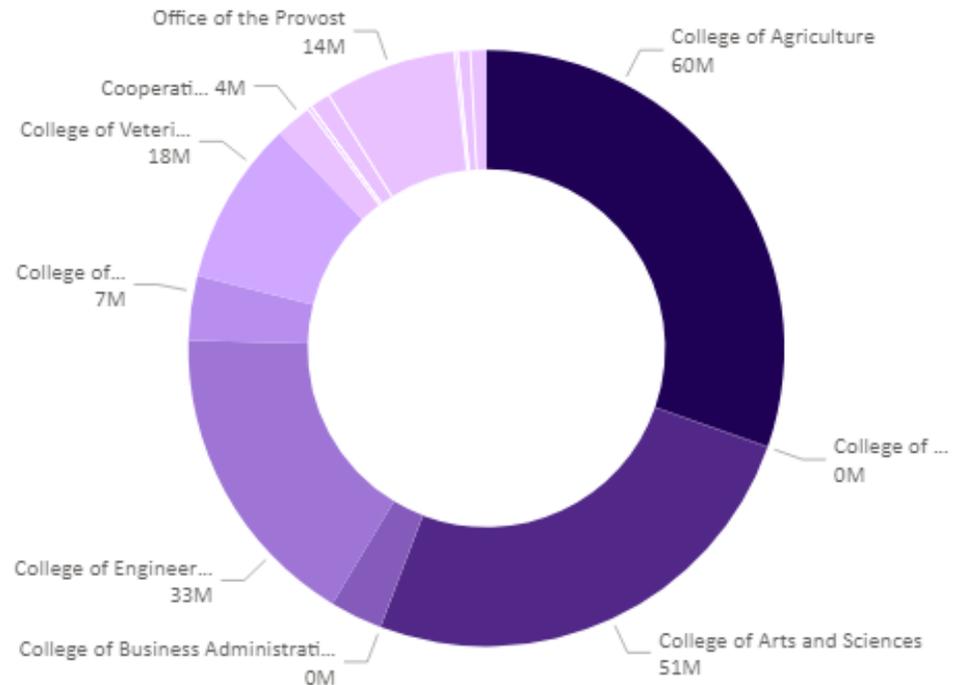
Note: Cooperative Extension Projects are reflected within various performing units; expansion of interactive data tools available online will provide more details.
Note: The interactive data tool utilizes aggregation functionality to address award counts when multiple units are collaborating.

Award summary by unit
FY 2016-FY 2020

Date Fiscal Year	FY 2016		FY 2017		FY 2018		FY 2019		FY 2020	
Unit	Count	Amount	Count	Amount	Count	Amount	Count	Amount	Count	Amount
College of Agriculture	393	46,557,546	397	45,809,019	369	39,795,801	355	49,522,566	478	60,397,265
College of Architecture, Planning and Design	5	35,721	8	197,543	5	35,995	8	104,275	13	133,351
College of Arts and Sciences	151	19,033,811	163	27,243,509	152	51,278,662	152	48,042,873	216	50,535,891
College of Business Administration			1	47,500			2	94,469	4	40,254
College of Education	31	4,564,195	28	3,461,870	32	2,500,753	24	3,858,387	41	5,672,027
College of Engineering	134	22,867,528	139	17,705,722	156	22,696,113	140	22,382,058	210	33,431,636
College of Health and Human Sciences									34	6,928,170
College of Human Ecology	47	12,507,045	42	10,520,492	48	10,685,358	43	12,557,244		
College of Veterinary Medicine	103	12,331,272	119	11,566,509	141	16,101,496	151	14,522,368	150	17,678,877
Cooperative Extension Service	39	2,014,764	54	11,510,133	48	5,519,142	35	8,666,611	43	3,968,950
Division of Communications and Marketing									2	44,250
Facilities Management					1	3,750				
Graduate School									5	426,122
Information Systems									2	7,237
K-State Global									1	5,000
K-State Libraries									1	5,000
K-State Olathe			3	43,700			1	0	1	0
K-State Polytechnic	6	896,549	3	174,821	6	650,512	17	1,210,500	24	2,200,892
Office of the President			3	5,022,932	3	5,026,300	3	5,082,500	1	1,760
Office of the Provost	17	1,482,311	20	1,831,565	15	2,153,790	17	1,804,874	19	14,222,026
School of Leadership Studies									5	343,933
University Operations									3	13,102
Vice President for Administration and Finance	2	19,605	2	9,878	1	2,000	1	24,897		
Vice President for Research	13	4,568,457	10	2,067,758	10	1,839,343	12	2,709,839	23	1,360,005
Vice President for Student Life and Dean of Students	19	1,856,460	20	2,103,803	24	3,287,568	25	3,002,644	15	1,717,225
Total	864	128,735,264	905	139,316,754	893	161,576,583	877	173,586,105	1137	199,132,973

Proposal Summary by Unit
FY 2016-FY 2020

Fiscal Year	FY 2016		FY 2017		FY 2018		FY 2019		FY 2020	
Unit	Count	Amount	Count	Amount	Count	Amount	Count	Amount	Count	Amount
⊞ College of Agriculture	656	84,722,634	662	99,817,778	584	105,313,313	680	121,218,028	596	143,844,412
⊞ College of Architecture, Planning and Design	16	3,722,112	17	2,381,620	11	1,893,716	14	712,119	15	841,476
⊞ College of Arts and Sciences	393	109,912,551	418	135,552,920	393	159,900,360	415	148,784,203	360	164,304,565
⊞ College of Business Administration	1	323,809	3	467,822	2	20,281	4	247,685	2	33,073
⊞ College of Education	75	41,505,674	86	42,280,306	84	25,851,795	66	29,736,528	58	17,381,344
⊞ College of Engineering	324	121,429,251	367	112,386,322	382	116,344,236	378	112,581,319	334	146,487,835
⊞ College of Health and Human Sciences									73	20,340,762
⊞ College of Human Ecology	96	45,405,537	96	27,817,693	87	16,864,265	89	24,278,713		
⊞ College of Veterinary Medicine	259	60,258,236	289	89,982,884	290	87,789,238	337	96,062,260	252	89,683,292
⊞ Cooperative Extension Service	70	7,622,988	86	9,196,091	76	8,104,558	71	11,916,576	49	6,382,061
⊞ Division of Communications and Marketing									1	20,000
⊞ Facilities Management					1	3,750	3	16,836		
⊞ Graduate School									1	22,695
⊞ Information Systems					1	375,000			2	182,330
⊞ K-State Global									2	15,000
⊞ K-State Libraries									3	127,865
⊞ K-State Olathe					1	24,600	4	651,637	4	814,273
⊞ K-State Polytechnic	10	1,000,851	9	1,942,816	21	6,395,671	34	1,194,091	23	2,975,226
⊞ Office of the President	1	0	4	5,119,814	6	5,254,692	5	5,183,518	4	390,165
⊞ Office of the Provost	25	11,024,574	26	1,607,701	22	3,362,694	28	3,647,884	19	20,991,795
⊞ School of Leadership Studies									8	1,271,984
⊞ University Operations									1	3,000
⊞ Vice President for Administration and Finance	4	77,785	2	0	1	0	1	24,897	1	0
⊞ Vice President for Research	23	4,790,956	26	5,796,246	17	2,796,299	36	5,089,696	24	2,450,950
⊞ Vice President for Student Life and Dean of Students	18	305,557	26	5,204,509	25	1,750,332	28	3,171,611	10	1,337,695
Total	1728	492,102,516	1785	539,554,521	1712	542,044,800	1867	564,517,601	1553	619,901,798
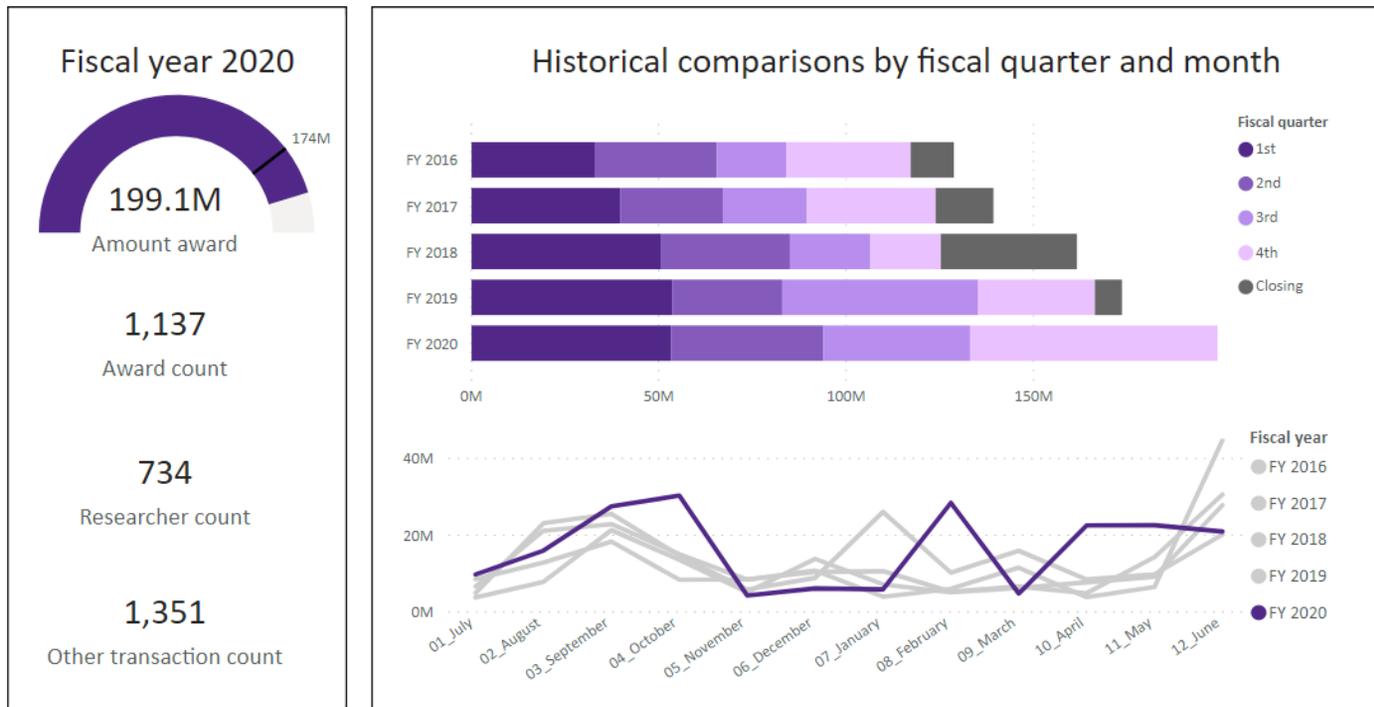
Award count: Inclusive of new awards and funded award modifications.
Researcher count: Represents the distinct count of individuals engaged in award activity.
Other transaction count: Representative of other RSCAD transactions; inclusive of nonmonetary award modifications (i.e., budget revisions, no cost time extensions, etc.), outgoing agreement (i.e., sub-agreements, service agreements, and consulting agreements) as well as zero-dollar agreements (i.e., MTA, NDA, CA).

It is suggested that all reports found in this annual summary be accessed via the online interactive tool for more in-depth filtering and analysis.