



**Sponsored Research at the
University of Kansas**
Fiscal Year 2007

*“To facilitate the discovery, application,
and dissemination of knowledge.”*

Introduction

This report covers sponsored research on all campuses of the University of Kansas for fiscal year 2007 (July 1, 2006 through June 30, 2007). It includes awards—which represent success in obtaining resources needed to conduct research—and expenditures—a measure of the progress of this research.

The information presented in this annual report, while impressive numerically, is only one measure of the success and strength of research activities at KU. Every dollar and every hour invested in research reflects the commitment of faculty and staff, graduate and undergraduate students, and the university itself to pursue excellence in learning, scholarship and creative activity.

It also reflects the confidence placed in KU by such organizations as the National Institutes of Health, the National Science Foundation, the U.S. Department of Education, the Kansas Biosciences Authority, the Kansas Technology Enterprise Corporation, and many foundations and corporations.

In FY2006, a survey conducted by the National Science Foundation ranked KU 45th among national public research universities in federally funded science and engineering research and development expenditures. This research is vital to the Kansas economy, especially in the expanding biosciences industry. Particular strengths include biorefining and biofuels, biomaterials, drug development and delivery, neurosciences, and information technology.

In a larger sense, however, all research and creative activity at KU has merit and is encouraged and recognized. The mission of the Office of Research and Graduate Studies is “to facilitate the discovery, application, and dissemination of knowledge.” This report demonstrates our fulfillment of that mission and our stewardship of the trust placed in us by those who sponsor the research enterprise at KU.

Notes

Data for academic and research units reflect amounts credited to these units based on their participation in the sponsored projects. The credited amounts do not necessarily equal the actual dollar amounts received or administered by these units.

The methodology used to assign research credit to academic units and research centers can be found at <http://www.rgs.ku.edu/depts/r-info/mcs-facr.shtml>. Reports for prior fiscal years, starting with 1998, are available at http://www.rgs.ku.edu/depts/r-info/annual_reports/annual_reports.shtml.

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University of Kansas

Sponsored Project Activity by Academic Unit: FY 2007

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
ALLIED HEALTH	28	3,096,757	49	2,488,221	639,810	1,892,507	3,128,031
ARCHITECTURE AND URBAN DESIGN	1	6,000	3	946	275	900	1,221
BUSINESS	3	659,040	10	558,842	39,006	0	597,848
COLLEGE OF LIBERAL ARTS AND SCIENCES	235	34,689,021	473	32,415,738	7,548,018	30,970,047	39,963,756
Administration ⁽¹⁾	7	1,601,777	2	1,550,634	56,920	1,133,969	1,607,554
Humanities	6	966,938	12	1,033,869	48,608	27,965	1,082,477
African & African-American Studies	0	190,804	1	177,205	14,559	27,965	191,764
Classics	0	0	1	-24	0	0	-24
East Asian Languages & Cultures	2	330,227	1	275,122	13,964	0	289,086
History	3	100,061	7	234,939	6,668	0	241,607
History of Art	0	0	1	20,881	0	0	20,881
Indigenous Nations Studies	0	0	0	32,926	2,918	0	35,844
Latin American Studies	0	35,065	0	53,038	1,005	0	54,043
Philosophy	0	67,500	0	4,525	1,797	0	6,322
Russian & East European Studies	0	235,267	0	219,132	7,697	0	226,829
Slavic Languages & Literatures	0	0	0	8,111	0	0	8,111
Theatre and Film	1	8,014	1	8,014	0	0	8,014
Natural Sciences and Mathematics	151	20,961,647	327	20,689,085	5,670,870	22,654,014	26,359,955
Bioinformatics Program	0	172,199	0	113,610	46,012	159,622	159,622
Biological Sciences	51	8,137,417	124	8,829,879	2,366,959	9,470,401	11,196,838
Ecology and Evolutionary Biology	28	4,696,647	82	4,212,934	1,115,299	4,470,356	5,328,233
Molecular Biosciences	23	3,440,770	42	4,616,945	1,251,660	5,000,045	5,868,605
Chemistry	30	5,697,931	65	4,897,067	1,480,350	5,588,059	6,377,417
Geography	8	2,109,487	20	1,827,041	427,564	1,961,889	2,254,605
Geology	22	1,498,044	50	1,974,600	517,170	1,836,887	2,491,770
Interdisciplinary Environmental Studies	3	258,744	6	263,814	43,702	181,054	307,516
Mathematics	4	371,709	16	438,863	168,739	578,437	607,602
Physics & Astronomy	33	2,716,116	46	2,344,211	620,374	2,877,665	2,964,585
Social Sciences	71	11,158,659	132	9,142,150	1,771,620	7,154,099	10,913,770
Anthropology	8	366,439	23	383,747	43,067	124,775	426,814
Applied Behavioral Science	26	6,687,287	40	4,611,626	726,677	3,038,719	5,338,303
Communication Studies	1	46,460	3	58,962	2,142	28,476	61,104
Economics	4	114,939	5	109,465	31,385	102,426	140,850
Linguistics	3	311,544	4	144,821	40,619	162,205	185,440
Political Science	7	450,119	9	371,146	66,161	122,728	437,307
Psychology	11	1,163,885	19	645,888	215,345	723,975	861,233
Public Administration	3	114,591	8	147,245	4,027	6,601	151,272

University of Kansas

Sponsored Project Activity by Academic Unit: FY 2007

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
Sociology	1	55,400	1	45,646	0	0	45,646
Speech/Language/Hearing	7	1,847,995	20	2,623,604	642,197	2,844,194	3,265,801
EDUCATION	99	23,224,607	183	23,366,548	2,891,295	2,523,926	26,257,843
Administration	21	4,498,677	31	4,975,694	565,967	0	5,541,661
Curriculum & Teaching	5	757,627	14	750,085	86,365	0	836,450
Educational Leadership & Policy Studies	10	2,410,422	20	2,224,503	169,743	-346	2,394,246
Health, Sport & Exercise Sciences	5	722,012	14	522,747	125,754	516,345	648,501
Psychology & Research in Education	5	2,050,038	12	2,968,508	371,240	35,906	3,339,748
Special Education	53	12,785,831	92	11,925,011	1,572,226	1,972,021	13,497,237
EDWARDS CAMPUS	0	0	0	0	0	0	0
ENGINEERING	126	17,608,361	188	13,085,190	2,923,584	13,485,579	16,008,774
Administration ⁽²⁾	5	95,229	1	15,255	0	1,700	15,255
Aerospace Engineering	27	1,440,410	16	1,361,803	185,792	1,256,433	1,547,595
Chemical & Petroleum Engineering	19	3,298,455	38	2,595,966	598,184	2,863,311	3,194,150
Civil, Environmental & Architectural Engineering	23	3,138,787	55	2,511,040	445,871	2,260,892	2,956,911
Electrical Engineering & Computer Science	38	8,428,895	56	5,986,765	1,489,034	6,528,537	7,475,799
Mechanical Engineering	14	1,206,585	22	614,361	204,703	574,706	819,064
FINE ARTS	1	137,998	4	140,584	17,184	14,042	157,768
GRADUATE SCHOOL	1	286,153	1	177,370	1,298	113,903	178,668
JOURNALISM & MASS COMMUNICATION	1	64,582	3	95,747	2,320	10,487	98,067
LAW	3	97,939	3	72,865	0	0	72,865
LIBRARIES	3	282,096	4	104,671	20,546	116,590	125,217
MEDICINE - KANSAS CITY	581	82,829,747	850	53,719,143	13,504,124	44,846,453	67,223,267
Administration	7	2,691,058	14	2,761,572	132,117	185,180	2,893,689
Anatomy & Cell Biology	34	9,917,804	42	6,991,370	1,527,494	7,855,614	8,518,864
Anesthesiology	6	217,461	7	16,772	42,191	0	58,963
Biochemistry & Molecular Biology	14	3,195,792	18	1,935,017	884,204	2,644,729	2,819,221
Biostatistics	1	147,000	0	0	0	0	0
Center for Environmental & Occupational Health	1	85,336	1	112,931	8,674	0	121,605
Center on Aging	14	2,616,847	19	2,474,196	372,150	1,664,439	2,846,346
Developmental Disabilities Center	7	1,148,730	13	1,174,819	54,711	247,784	1,229,530
Family Medicine	6	725,546	14	297,516	30,507	7,771	328,023
General Clinical Research Center	1	2,314,235	0	0	0	0	0
Health Policy & Management	5	176,207	6	64,190	5,633	15,348	69,823
History and Philosophy of Medicine	0	0	0	21,608	11,261	32,869	32,869
Hoglund Brain Imaging Center	9	566,478	14	826,147	153,571	465,836	979,718

University of Kansas

Sponsored Project Activity by Academic Unit: FY 2007

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
Internal Medicine	125	11,785,485	224	5,992,177	1,752,022	4,030,368	7,744,199
Kansas Masonic Cancer Research Institute	24	932,834	14	2,016,888	868,233	2,653,348	2,885,121
Mental Retardation Research Center	4	1,654,567	4	2,006,812	502,267	2,509,079	2,509,079
Microbiology, Molecular Genetics & Immunology	14	5,009,371	25	3,592,217	1,329,050	4,640,211	4,921,267
Molecular & Integrative Physiology	28	6,568,630	52	3,599,571	1,219,136	4,234,968	4,818,707
Neurology	80	3,868,481	92	2,593,195	503,020	928,314	3,096,215
Obstetrics & Gynecology	11	2,044,388	16	495,809	172,321	608,789	668,130
Ophthalmology	2	23,287	4	8,529	937	0	9,466
Otolaryngology	1	11,561	4	29,884	15,646	45,130	45,530
Pathology & Laboratory Medicine	17	3,161,976	28	1,907,747	543,320	2,268,979	2,451,067
Pediatrics	33	5,924,287	48	4,735,781	705,546	544,943	5,441,327
Pharmacology, Toxicology & Therapeutics	34	7,710,800	48	4,609,544	1,633,451	5,849,727	6,242,995
Preventive Medicine	22	4,533,685	35	3,474,640	591,926	2,150,534	4,066,566
Psychiatry & Behavioral Sciences	10	546,237	11	31,412	10,175	429	41,587
Radiation Oncology	1	150,472	2	3,154	1,050	0	4,204
Radiology	0	1,400	0	0	0	0	0
Physical Medicine and Rehabilitation	0	0	1	9,187	0	0	9,187
School of Medicine - Wichita	18	2,444,650	33	1,013,915	129,394	490,369	1,143,309
Surgery	46	1,411,381	54	675,038	270,138	651,880	945,176
Telemedicine	6	1,243,761	7	247,505	33,979	119,815	281,484
NURSING	27	7,001,911	36	3,366,951	1,136,282	2,089,453	4,503,233
PHARMACY	69	15,403,614	127	13,451,165	3,982,324	14,374,440	17,433,489
Medicinal Chemistry	29	8,078,192	43	6,727,186	2,217,925	8,774,002	8,945,111
Pharmaceutical Chemistry	25	3,390,093	51	2,952,528	1,133,411	3,095,825	4,085,939
Pharmacology & Toxicology	13	3,915,764	28	3,762,281	627,474	2,504,613	4,389,755
Pharmacy Practice	2	19,565	5	9,170	3,514	0	12,684
SOCIAL WELFARE	22	7,245,387	37	6,143,186	583,075	2,704,097	6,726,261
TOTAL ACADEMIC UNITS	1,200	192,633,213	1,971	149,187,167	33,289,141	113,142,424	182,476,308
TOTAL NON-ACADEMIC UNITS⁽³⁾	95	13,503,060	189	12,451,925	1,864,138	5,073,510	14,316,063
TOTAL⁽⁴⁾	1,238	202,534,651	2,065	159,039,425	34,290,235	115,371,893	193,329,660

(1) Includes NSF EPSCoR administrative costs.

(2) Includes NASA EPSCoR administrative costs.

(3) Allocations to investigators with appointments only in research centers or other non-academic units.

(4) Inter-campus expenditures are included in school and departmental totals to more accurately reflect sponsored project activities in these units. Totals for the entire university exclude inter-campus expenditures to avoid double counting.

University of Kansas Sponsored Project Activity by Research Unit: FY 2007

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
KUCR DESIGNATED RESEARCH CENTERS	249	59,770,789	453	52,947,258	11,303,118	42,232,941	64,250,376
Biodiversity Research Center	18	3,621,112	37	3,018,879	973,734	3,825,048	3,992,613
Center for Environmentally Beneficial Catalysis	3	2,832,932	16	3,031,328	629,666	3,277,671	3,660,994
Center for Remote Sensing of Ice Sheets	12	5,012,200	19	4,692,011	1,078,833	5,654,014	5,770,844
Center for Research on Learning	16	6,423,472	37	6,146,753	988,510	476,811	7,135,263
Higuchi Biosciences Center	63	14,740,500	105	13,620,956	3,756,891	14,973,664	17,377,847
Information & Telecommunication Technology Center	29	5,380,690	48	2,952,746	761,088	2,807,772	3,713,834
Joyce & Elizabeth Hall Center for the Humanities	12	1,371,010	21	1,552,322	62,277	53,386	1,614,599
Grant Development Office	5	123,010	12	395,395	7,126	16,099	402,521
Kansas African Studies Center	2	377,109	3	337,465	23,783	37,287	361,248
Center for East Asian Studies	2	330,227	1	275,122	13,964	0	289,086
Center for Russian, East European and Eurasian Studies	2	470,534	1	438,264	15,394	0	453,658
Center of Latin American Studies	1	70,130	4	106,076	2,010	0	108,086
Schiefelbusch Institute for Life Span Studies	96	20,388,873	170	17,932,263	3,052,119	11,164,575	20,984,382
SURVEYS	44	3,425,779	124	4,095,852	755,601	2,897,778	4,851,453
Kansas Biological Survey	17	1,543,815	54	1,991,515	406,373	1,412,201	2,397,888
Kansas Geological Survey	27	1,881,964	70	2,104,337	349,228	1,485,577	2,453,565
OTHER LAWRENCE CAMPUS RESEARCH CENTERS	95	16,253,629	177	13,588,294	2,016,744	4,910,118	15,605,038
American Indian Outreach Program	0	0	2	378,236	1,775	374,259	380,011
Center for Applied Economics	0	0	1	5,366	0	0	5,366
Center for Science Education	1	93,527	6	227,154	30,892	90,971	258,046
Center for Teaching Excellence	0	0	1	434	43	0	477
Center for Bioinformatics	1	229,599	1	151,479	61,350	212,829	212,829
Center for Educational Testing & Evaluation	2	3,146,700	5	2,168,872	357,774	0	2,526,646
Energy Research Center	3	416,898	7	407,958	149,061	364,705	557,019
Institute for Educational Research & Public Service	31	6,181,486	66	5,995,408	496,120	0	6,491,528
Institute for Policy and Social Research	11	813,283	22	571,655	115,551	231,755	687,206
Isotope Geochemistry Laboratory	2	200,378	5	226,561	78,691	263,471	305,252
Molecular Structures Group	3	220,057	2	157,613	67,687	225,300	225,300
Robert J. Dole Institute of politics	0	0	1	98,162	0	0	98,162
Spencer Museum of Art	2	15,514	5	33,026	7,595	0	40,621
Tertiary Oil Recovery Project	2	613,543	5	371,659	100,819	472,478	472,478
Transportation Research Institute	37	4,322,644	48	2,794,711	549,386	2,674,350	3,344,097
PROGRAMS	34	3,705,537	6	2,545,295	216,943	2,025,399	2,762,238
NASA EPSCoR/Kansas Space Grant Consortium	20	551,099	3	707,001	39,942	569,726	746,943
NSF EPSCoR	14	3,154,438	3	1,838,294	177,001	1,455,673	2,015,295
MEDICAL CENTER RESEARCH UNITS	61	9,466,027	66	8,631,008	1,962,761	7,540,486	10,593,769
Animal Resources	0	0	1	19,215	3,155	0	22,370
Biostatistics	1	147,000	0	0	0	0	0
Center for Environmental & Occupational Health	1	85,336	1	112,931	8,674	0	121,605

University of Kansas Sponsored Project Activity by Research Unit: FY 2007

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
Center on Aging	14	2,616,847	19	2,474,196	372,150	1,664,439	2,846,346
Developmental Disabilities Center	7	1,148,730	13	1,174,819	54,711	247,784	1,229,530
General Clinical Research Center	1	2,314,235	0	0	0	0	0
Hoglund Brain Imaging Center	9	566,478	14	826,147	153,571	465,836	979,718
Kansas Masonic Cancer Research Institute	24	932,834	14	2,016,888	868,233	2,653,348	2,885,121
Mental Retardation & Human Development	4	1,654,567	4	2,006,812	502,267	2,509,079	2,509,079
OTHER UNITS	28	2,464,728	60	2,612,620	280,455	123,872	2,893,075
Continuing Education	4	450,848	8	193,576	37,424	0	231,000
Facilities Operations Management	1	14,888	1	64,233	0	0	64,233
Kansas Audio Reader Network	2	6,500	1	850	0	0	850
KANU Radio	1	263,753	4	313,054	4,335	0	317,389
Legal Services for Students	0	0	1	25,792	11,348	0	37,140
Lied Center	6	67,014	6	57,755	9,259	0	67,014
Office of Academic Affairs (KUMC)	0	17,291	0	0	0	0	0
Office of International Programs	1	67,889	1	46,861	0	0	46,861
Public Safety Office	0	126	1	6,530	0	0	6,530
Student Success	3	95,883	3	93,415	7,704	0	101,119
Student Services (KUMC)	2	43,273	0	0	0	0	0
Telemedicine	6	1,243,761	7	247,505	33,979	119,815	281,484
Other non-academic units	2	193,502	27	1,563,049	176,406	4,057	1,739,455
TOTAL RESEARCH CENTERS	511	95,086,489	886	84,420,327	16,535,622	59,730,594	100,955,949
TOTAL NON-CENTER RESEARCH⁽¹⁾	784	111,074,792	1,274	77,243,271	18,618,710	58,485,332	95,861,980
TOTAL⁽²⁾	1,238	202,534,651	2,065	159,039,425	34,290,235	115,371,893	193,329,660

(1) Projects not assigned to a research center.

(2) Inter-campus expenditures are included in center totals to more accurately reflect sponsored project activities in these units.

Totals for the entire university exclude inter-campus expenditures to avoid double counting.

University of Kansas

Sponsored Project Activity by Sponsoring Agency: FY 2007

	AWARDS		EXPENDITURES			
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL
FEDERAL	685	166,973,054	1,148	133,374,764	30,676,690	164,051,454
Department of Health & Human Services	346	102,457,709	530	75,833,477	19,878,271	95,711,748
National Institutes of Health	278	88,896,152	396	61,836,914	17,821,049	79,657,963
Department of Education	95	26,657,934	159	27,497,776	2,836,066	30,333,842
National Science Foundation	88	19,948,411	203	17,489,945	4,602,129	22,092,074
Department of Energy	22	4,197,049	41	3,229,674	1,015,448	4,245,122
Department of Defense	25	3,417,297	49	2,274,243	828,089	3,102,332
Department of Transportation	23	4,178,529	22	2,357,879	554,201	2,912,080
National Aeronautics & Space Administration	39	2,202,962	26	2,137,318	446,902	2,584,220
Department of the Interior	10	664,905	31	703,877	160,985	864,862
Environmental Protection Agency	4	479,637	18	471,104	171,286	642,390
Department of Agriculture	10	2,123,664	20	475,033	32,700	507,733
Department of Housing and Urban Development	1	4,000	4	162,012	34,590	196,602
Department of Homeland Security	2	72,883	5	140,180	14,234	154,414
Department of Justice	5	318,640	6	145,132	3,922	149,054
Institute of Museum & Library Services	0	0	4	116,438	25,941	142,379
National Endowment for the Arts	10	91,247	13	92,105	11,459	103,564
Central Intelligence Agency	1	78,000	1	56,423	27,083	83,506
Small Business Administration	1	22,887	4	77,336	4,801	82,137
Treasury	1	40,500	2	50,428	22,188	72,616
Other Federal	2	16,800	10	64,384	6,395	70,779
STATE OF KANSAS	50	6,469,346	78	5,551,189	176,435	5,727,624
Kansas Technology Enterprise Corporation	13	2,912,268	12	2,695,281	62	2,695,343
Department of Social & Rehab. Services	7	627,458	7	587,860	28,276	616,136
Department of Transportation	4	835,631	19	582,818	0	582,818
Department of Education	3	477,782	7	412,741	145,894	558,635
Kansas Water Office	5	320,378	10	273,164	0	273,164
Department of Administration	2	281,316	5	264,705	0	264,705
Kansas Corporation Commission	2	67,919	3	177,564	0	177,564
Wildlife	0	0	1	163,220	0	163,220
Parsons State Hospital	1	70,000	2	136,390	0	136,390
Department of Health & Environment	5	431,354	3	90,025	44	90,069
Kansas Juvenile Justice Authority	2	121,440	2	11,752	16	11,768
Libraries	1	60,000	0	0	0	0
Kansas Office of Aging	2	155,897	0	0	0	0
Other State of Kansas	3	107,903	7	155,669	2,143	157,812
OTHER GOVERNMENTAL UNITS	12	241,821	28	595,334	90,978	686,312
INDUSTRY	246	7,269,512	369	6,296,915	2,002,923	8,299,838
FOUNDATIONS & NON-PROFIT ORGANIZATIONS	182	13,931,528	300	10,867,280	1,230,268	12,097,548
OTHER	63	7,649,390	142	2,353,943	112,941	2,466,884
TOTAL	1,238	202,534,651	2,065	159,039,425	34,290,235	193,329,660