

Sponsored Research at the University of Kansas Fiscal Year 2005

This report covers sponsored research on all campuses of the University of Kansas for fiscal year 2005 (July 1, 2004 through June 30, 2005). Each of the sponsored projects summarized in the pages that follow is a story of scholars persisting toward knowledge in spite of challenges. Obtaining grant funding is difficult work, followed by the even more difficult work of carrying out the research program and reporting the findings. The efforts of KU faculty from more than 80 academic units are reflected here.

Both awards, which represent success in obtaining resources needed for conducting research, and expenditures, a measure of the progress of this research, are included. Prestigious awards and fellowships won by KU faculty members in fiscal year 2005, another important indicator of research success, are also featured.

Data shown for academic and research units reflect amounts credited to these units based on their participation in, and contributions to, the sponsored projects that generate the dollars awarded or expended.

A description of the method used to assign research credit to academic units and research centers can be found at <http://www.research.ku.edu/kucr/policy/mca.shtml>. The credited amounts do not necessarily equal the actual dollar amounts received or administered by these units.

Reports for prior years may be found on our Web site (<http://www.research.ku.edu/-rankings/index.shtml>).

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Honors and Awards

Sponsored research awards and expenditures do not provide a complete picture of the quality and extent of research and scholarly activity at the University of Kansas. The following is a representative list of prestigious awards and fellowships received by KU faculty during fiscal year 2005.

This list comprises the awards and fellowships monitored by the Association of American Universities as criteria for membership and awards included in "The Top American Research Universities," published by TheCenter at the University of Florida. The complete lists of awards may be found at <http://www.aau.edu/aau/Policy.pdf> and <http://thecenter.ufl.edu/research2004.pdf>, respectively. Award and fellowship recipients from previous years are featured on our web site (<http://www.research.ku.edu>).

Fulbright Scholars

- David Besson, Professor
Physics and Astronomy
- Dennis Karney, Ned Fleming Professor of Business
Business
- Susan Zvacek, Director
Instructional Development and Support

NEH Fellows

- Brian Donovan, Assistant Professor
Sociology
- Mechele Leon, Assistant Professor
Theater History and Criticism
- Robert Rankin, Professor Emeritus
Linguistics

NEH Summer Stipends

- Jonathan Boyarin, Robert M. Beren Distinguished Professor of Modern Jewish Studies
Religious Studies
- Edith Clowes, Professor
Slavic Languages and Literature
- Michael Zogry, Assistant Professor
Religious Studies

J. Paul Getty Trust Curatorial Fellowship

- Susan Earle, Curator
Spencer Museum of Art

NSF CAREER Awards

- Michael Murray, Assistant Professor
Physics and Astronomy
- Danny Marfatia, Assistant Professor
Physics and Astronomy

National Humanities Center John Hope Franklin Fellowship

- Maryemma Graham, Professor
English

Newberry Library British Academy Exchange Fellow

- Hagith Sivan, Associate Professor
History

American Philosophical Society Grant

- Marc L. Greenberg, Professor and Chair
Slavic Languages and Literature
- Elizabeth MacGonagle, Assistant Professor
History

NEH / NSF Documenting Endangered Languages Fellowship

- Arienne Dwyer, Assistant Professor
Anthropology

Alexander von Humboldt Foundation TransCoop Sponsorship

- Arne Koch, Assistant Professor
Germanic Languages and Literatures

Rockefeller Foundation Residents

- Richard T. De George, University Distinguished Professor
Philosophy
- Hagith Sivan, Associate Professor
History

University of Kansas

Sponsored Project Activity by Academic Unit: FY 2005

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
ALLIED HEALTH	31	2,045,228	56	1,814,080	452,748	1,031,583	2,266,828
ARCHITECTURE AND URBAN DESIGN	4	85,464	6	49,157	5,486	24,179	54,643
BUSINESS	6	706,844	11	609,457	62,377	66,968	671,834
COLLEGE OF LIBERAL ARTS AND SCIENCES	305	40,231,993	547	32,847,499	7,957,166	32,628,616	40,804,665
Administration ⁽¹⁾	16	1,308,183	26	1,731,925	0	1,139,678	1,731,925
Humanities	17	1,564,361	26	1,480,576	93,077	0	1,573,653
African & African-American Studies	0	4,950	2	8,695	0	0	8,695
East Asian Languages & Cultures	4	398,562	5	312,565	12,281	0	324,846
English	2	100,372	3	88,505	16,415	0	104,920
Germanic Languages & Literatures	1	11,640	1	8,164	3,715	0	11,879
History	4	231,683	9	264,376	14,702	0	279,078
History of Art	1	40,000	0	0	0	0	0
Indigenous Nations Studies	0	64,408	0	46,840	12,579	0	59,419
Latin American Studies	0	225,383	0	178,790	6,980	0	185,770
Philosophy	1	1,000	1	1,000	0	0	1,000
Russian & East European Studies	0	146,826	0	156,566	9,288	0	165,854
Slavic Languages & Literatures	2	315,000	2	375,135	10,109	0	385,244
Spanish & Portuguese	0	0	1	15,403	7,008	0	22,411
Theatre and Film	2	24,537	2	24,537	0	0	24,537
Natural Sciences and Mathematics	184	24,923,601	344	20,335,623	5,809,457	23,726,581	26,145,080
Bioinformatics Program	0	213,657	0	4,957	2,181	7,138	7,138
Biological Sciences	65	9,985,422	116	8,864,499	2,736,531	10,637,094	11,601,030
<i>Ecology and Evolutionary Biology</i>	37	4,198,290	71	3,695,968	1,336,590	4,815,137	5,032,558
<i>Molecular Biosciences</i>	28	5,787,132	45	5,168,531	1,399,941	5,821,957	6,568,472
Chemistry	25	6,271,463	63	4,721,327	1,331,822	5,251,625	6,053,149
Geography	14	1,333,053	26	923,605	272,954	989,402	1,196,559
Geology	38	2,914,013	59	1,783,119	484,469	1,950,545	2,267,588
Interdisciplinary Environmental Studies	4	368,117	8	228,124	40,900	248,165	269,024
Mathematics	5	517,057	25	690,479	195,330	807,043	885,809
Physics & Astronomy	33	3,320,819	47	3,119,513	745,270	3,835,569	3,864,783
Social Sciences	88	12,435,848	151	9,299,375	2,054,632	7,762,357	11,354,007
Anthropology	8	338,418	14	311,744	42,991	139,687	354,735
Applied Behavioral Science	34	6,198,630	55	5,191,884	1,044,181	3,805,581	6,236,065
Communication Studies	2	18,350	7	194,973	60,507	209,992	255,480
Economics	1	230,539	6	117,873	50,671	123,185	168,544
Government	11	631,396	20	447,866	77,366	158,625	525,232

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Sponsored Project Activity by Academic Unit: FY 2005 (continued)

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
Psychology	13	1,203,567	22	452,234	149,567	522,458	601,801
Sociology	0	5,200	5	109,009	16,343	52,260	125,352
Speech/Language/Hearing	16	3,797,348	19	2,455,228	610,810	2,741,441	3,066,038
Women's Studies	3	12,400	3	18,564	2,196	9,128	20,760
EDUCATION	112	23,765,882	175	19,517,969	2,072,756	2,843,565	21,590,725
Administration	15	3,003,003	22	2,652,500	191,952	0	2,844,452
Health, Sport & Exercise Sciences	12	1,573,634	17	747,494	235,808	850,032	983,302
Psychology & Research in Education	5	4,254,788	12	3,101,370	201,884	0	3,303,254
Special Education	61	12,477,995	92	10,340,280	1,238,945	1,997,315	11,579,225
Teaching & Leadership	19	2,456,462	32	2,676,325	204,167	-3,782	2,880,492
EDWARDS CAMPUS	2	168,961	3	391,738	31,453	0	423,191
ENGINEERING	120	11,221,493	159	10,240,884	1,952,365	8,945,578	12,193,249
Administration ⁽²⁾	0	0	0	113,049	0	0	113,049
Aerospace Engineering	39	1,127,316	21	1,261,812	203,986	722,956	1,465,798
Chemical & Petroleum Engineering	23	2,603,559	20	2,028,545	435,164	2,263,315	2,463,709
Civil, Environmental & Architectural Engineering	21	1,364,979	55	1,598,748	267,537	1,112,178	1,866,285
Electrical Engineering & Computer Science	23	5,385,607	44	4,613,519	895,253	4,357,163	5,508,772
Engineering Management	0	33,792	0	78,347	6,291	0	84,638
Mechanical Engineering	14	706,240	19	546,864	144,134	489,966	690,998
FINE ARTS	4	185,417	3	33,426	0	0	33,426
GRADUATE SCHOOL	2	108,298	3	176,078	0	86,184	176,078
JOURNALISM & MASS COMMUNICATION	2	201,000	1	7,373	0	0	7,373
LAW	2	61,906	1	80,582	491	2,011	81,073
LIBRARIES	1	4,674	5	118,153	35,739	153,747	153,892
MEDICINE	531	70,804,378	846	49,648,243	12,985,385	42,204,088	62,633,628
Administration	5	4,826,421	33	6,030,688	737,288	2,267,970	6,767,976
Anatomy & Cell Biology	31	9,219,480	61	6,560,191	2,078,681	8,087,329	8,638,872
Anesthesiology	6	168,572	9	57,355	31,256	0	88,611
Biochemistry & Molecular Biology	11	1,468,452	17	1,871,293	715,274	2,544,783	2,586,567
Center for Environmental & Occupational Health	0	0	2	121,069	8,988	0	130,057
Center on Aging	10	1,784,320	23	1,482,964	340,241	955,662	1,823,205
Developmental Disabilities Center	10	1,718,634	19	1,410,280	74,003	55	1,484,283
Family Medicine	11	1,308,404	11	1,078,445	75,126	145,400	1,153,571
Health Policy & Management	6	357,128	9	129,687	19,129	48,458	148,816
Hoglund Brain Imaging Center	5	627,777	8	352,451	96,357	288,248	448,808
Internal Medicine	152	13,097,642	203	5,284,278	1,389,141	3,589,691	6,673,419

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Sponsored Project Activity by Academic Unit: FY 2005 (continued)

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
Kansas Masonic Cancer Research Institute	9	1,022,534	13	1,496,159	612,025	1,975,854	2,108,184
Mental Retardation Research Center	1	609,697	5	451,065	190,661	641,726	641,726
Microbiology, Molecular Genetics & Immunology	19	5,630,250	31	4,581,387	1,450,864	5,879,826	6,032,251
Molecular & Integrative Physiology	37	6,759,882	68	4,300,392	1,531,553	5,575,616	5,831,945
Neurology	69	2,343,048	80	1,050,032	326,116	226,012	1,376,148
Obstetrics & Gynecology	6	410,168	15	333,382	81,601	213,730	414,983
Ophthalmology	3	65,826	6	60,942	7,454	0	68,396
Otolaryngology	1	52,450	4	159,731	79,621	239,352	239,352
Pathology & Laboratory Medicine	17	2,147,906	29	1,791,866	797,708	2,341,270	2,589,574
Pediatrics	35	4,489,772	55	3,365,070	441,520	477,600	3,806,590
Pharmacology, Toxicology & Therapeutics	19	3,683,074	38	2,819,706	1,018,021	3,510,091	3,837,727
Preventive Medicine	17	3,708,901	32	2,735,401	558,169	2,649,590	3,293,570
Psychiatry & Behavioral Sciences	3	131,311	10	220,461	82,141	259,224	302,602
Radiation Oncology	1	3,663	4	11,492	4,036	6,379	15,528
Radiology	0	0	1	380	0	0	380
School of Medicine - Wichita	15	2,845,603	24	1,373,771	99,357	8,006	1,473,128
Surgery	28	1,020,345	33	288,115	104,290	272,216	392,405
Telemedicine	4	1,303,118	3	230,190	34,764	0	264,954
NURSING	15	2,826,052	32	2,849,748	765,716	1,854,356	3,615,464
PHARMACY	126	19,867,695	173	16,292,272	3,453,565	15,358,893	19,745,837
Medicinal Chemistry	60	9,794,765	53	8,484,411	1,898,079	9,520,976	10,382,490
Pharmaceutical Chemistry	36	4,060,186	76	3,684,682	924,630	3,292,871	4,609,312
Pharmacology & Toxicology	24	5,767,279	33	3,811,008	588,077	2,461,484	4,399,085
Pharmacy Practice	6	245,465	11	312,171	42,779	83,562	354,950
SOCIAL WELFARE	20	5,691,112	34	6,317,848	958,678	2,288,641	7,276,526
TOTAL ACADEMIC UNITS	1,283	177,976,397	2,055	140,994,507	30,733,925	107,488,409	171,728,432
NON-ACADEMIC UNITS⁽³⁾	121	18,151,640	192	17,271,323	2,296,041	6,672,420	19,567,364
GRAND TOTAL⁽⁴⁾	1,364	193,684,465	2,150	155,489,881	32,130,148	110,768,296	187,620,029

(1) Includes NSF EPSCoR administrative costs.

(2) Included 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.

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Sponsored Project Activity by Research Unit: FY 2005

AWARDS		EXPENDITURES				
No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
					Federal Science & Engineering Research	All Projects

RESEARCH CENTERS

LAWRENCE CAMPUS DESIGNATED CENTERS	322	65,447,386	445	51,851,143	10,036,624	38,779,025	61,887,767
Biodiversity Research Center	21	4,660,829	33	2,885,824	935,641	3,820,951	3,821,465
Center for Environmentally Beneficial Catalysis	14	3,375,001	1	2,653,384	531,087	2,980,826	3,184,471
Center for Remote Sensing of Ice Sheets	9	1,829,930	7	1,011,699	267,704	1,279,403	1,279,403
Center for Research on Learning	36	9,844,989	51	7,670,246	862,966	845,484	8,533,212
Higuchi Biosciences Center	94	18,060,548	111	14,387,812	3,264,373	14,861,432	17,652,185
Information & Telecommunication Technology Center	19	4,182,947	47	4,273,863	841,211	3,787,834	5,115,074
Joyce & Elizabeth Hall Center for the Humanities	15	1,580,055	26	1,580,867	97,826	22,018	1,678,693
<i>Grant Development Office</i>	10	524,412	17	686,665	46,001	22,018	732,666
<i>Center for East Asian Studies</i>	2	353,562	3	266,145	12,281	0	278,426
<i>Center for Russian & East European Studies</i>	1	251,315	1	242,020	18,575	0	260,595
<i>Center of Latin American Studies</i>	2	450,766	5	386,037	20,969	0	407,006
Schiefelbusch Institute for Life Span Studies	114	21,913,087	169	17,387,448	3,235,816	11,181,077	20,623,264
SURVEYS	77	5,501,127	124	4,219,309	1,026,057	4,070,814	5,245,366
Kansas Biological Survey	27	2,447,186	52	2,130,479	638,385	2,456,748	2,768,864
Kansas Geological Survey	50	3,053,941	72	2,088,830	387,672	1,614,066	2,476,502
OTHER LAWRENCE CAMPUS RESEARCH CENTERS	84	13,294,828	174	11,971,230	1,377,569	3,118,105	13,348,799
American Indian Outreach Program	2	646,419	2	814,632	2,037	567,529	816,669
Anthropological Research and Cultural Collections	1	11,403	1	1,164	530	0	1,694
Center for Science Education	1	90,741	4	475,187	138,379	0	613,566
Center for Teaching Excellence	1	10,000	1	608	0	0	608
Center for Bioinformatics	1	284,876	1	6,609	2,908	9,517	9,517
Center for Educational Testing & Evaluation	3	3,829,500	9	2,907,370	183,731	0	3,091,101
Energy Research Center	5	540,061	9	228,992	74,268	264,816	303,260
Flight Research Laboratory	5	148,547	9	186,831	60,415	150,503	247,246
Infrastructure Research Institute	6	122,188	25	408,043	113,771	291,294	521,814
Inst. for Educational Research & Public Service	37	5,625,181	59	5,761,709	436,288	0	6,197,997
Isotope Geochemistry Laboratory	2	238,616	6	214,738	72,081	286,819	286,819
Molecular Structures Group	1	15,672	5	142,257	4,816	147,073	147,073
Policy Research Institute	11	1,240,794	32	491,994	168,601	362,741	660,595
Spencer Museum of Art	4	227,098	3	45,277	16,261	0	61,538
Tertiary Oil Recovery Project	1	456,902	2	399,893	85,173	485,066	485,066
Transportation Center	6	490,971	10	554,295	65,317	552,747	619,612
Transportation Research Institute	1	16,000	0	0	0	0	0

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Sponsored Project Activity by Research Unit: FY 2005 (continued)

	AWARDS		EXPENDITURES				
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL	
						Federal Science & Engineering Research	All Projects
PROGRAMS	48	3,469,553	41	3,509,902	377,455	2,389,996	3,887,357
NASA EPSCoR/Kansas Space Grant Consortium	25	511,979	5	905,590	57,190	345,805	962,780
NSF EPSCoR	23	2,957,574	36	2,604,312	320,265	2,044,191	2,924,577
MEDICAL CENTER RESEARCH UNITS	35	5,762,962	72	5,999,511	1,324,348	3,861,545	7,323,859
Animal Resources	0	0	2	685,523	2,073	0	687,596
Center for Environmental & Occupational Health	0	0	2	121,069	8,988	0	130,057
Center on Aging	10	1,784,320	23	1,482,964	340,241	955,662	1,823,205
Developmental Disabilities Center	10	1,718,634	19	1,410,280	74,003	55	1,484,283
Hoglund Brain Imaging Center	5	627,777	8	352,451	96,357	288,248	448,808
Kansas Masonic Cancer Research Institute	9	1,022,534	13	1,496,159	612,025	1,975,854	2,108,184
Mental Retardation & Human Development	1	609,697	5	451,065	190,661	641,726	641,726
OTHER UNITS							
Applied English Center	1	151,300	1	81,548	2,205	0	83,753
Area Health Education Center	1	9,000	0	0	0	0	0
Continuing Education	2	87,950	5	342,637	26,120	0	368,757
Kansas Audio Reader Network	1	5,000	0	0	0	0	0
KANU Radio	6	706,060	8	660,234	5,889	0	666,123
Lied Center	6	35,887	6	31,304	4,583	0	35,887
Office of International Programs	2	34,898	3	37,528	0	0	37,528
Public Safety Office	2	106,307	0	0	0	0	0
Student Success	4	97,977	7	85,328	16,738	0	102,066
Telemedicine	4	1,303,118	3	230,190	34,764	0	264,954
Other non-academic units	3	376,905	30	2,506,940	220,604	225,088	2,727,544
TOTAL RESEARCH CENTERS	570	94,175,997	860	78,219,464	14,189,060	52,219,485	92,408,524
TOTAL OTHER UNITS	32	2,914,402	63	3,975,709	310,903	225,088	4,286,612
NON-CENTER RESEARCH⁽¹⁾	802	99,037,638	1,324	76,070,657	18,530,003	61,716,256	94,600,660
GRAND TOTAL⁽²⁾	1,364	193,684,465	2,150	155,489,881	32,130,148	110,768,296	187,620,029

(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 2005

	AWARDS		EXPENDITURES			
	No.	TOTAL	No.	Direct	Facilities & Administrative	TOTAL
FEDERAL	807	160,599,501	1,233	132,871,765	29,555,532	162,427,297
Department of Health & Human Services	366	94,955,239	539	77,505,823	19,839,444	97,345,267
<i>National Institutes of Health</i>	284	74,585,265	407	58,782,673	17,873,608	76,656,281
Department of Education	118	30,513,616	186	26,516,439	2,489,895	29,006,334
National Science Foundation	141	19,494,962	239	15,616,832	3,927,282	19,544,114
Department of Defense	25	4,252,976	51	3,116,725	977,872	4,094,597
Department of Energy	25	3,853,204	37	2,803,311	830,490	3,633,801
National Aeronautics & Space Administration	45	2,209,067	36	2,153,133	515,585	2,668,718
Environmental Protection Agency	9	1,027,421	21	889,675	338,832	1,228,507
Department of the Interior	23	935,135	34	762,900	164,845	927,745
Department of Transportation	4	368,264	12	572,253	167,142	739,395
Department of Commerce	3	216,453	5	487,899	37,874	525,773
Department of Justice	2	61,307	4	455,614	21,355	476,969
Department of Agriculture	5	815,967	7	344,373	54,248	398,621
Department of State	5	171,293	5	216,735	2,205	218,940
Institute of Museum & Library Services	2	153,735	6	155,109	52,000	207,109
National Endowment for the Humanities	3	139,000	5	173,203	32,252	205,455
Department of Labor	0	0	1	101,085	6,833	107,918
Department of Veterans Affairs	1	25,000	5	76,350	4,167	80,517
Department of Housing and Urban Development	2	439,912	3	56,658	8,540	65,198
Federal Emergency Management Administration	1	28,000	3	48,223	11,193	59,416
Small Business Administration	1	58,507	2	45,714	3,657	49,371
Department of Homeland Security	2	335,000	1	21,552	0	21,552
Other Federal	24	545,443	31	752,159	69,821	821,980
STATE OF KANSAS	64	7,303,330	110	6,245,936	100,158	6,346,094
Kansas Technology Enterprise Corporation	17	3,412,775	35	3,337,056	28,509	3,365,565
Department of Education	5	961,426	9	1,302,871	60,950	1,363,821
Department of Transportation	10	423,500	27	374,816	0	374,816
Department of Health & Environment	6	1,133,326	4	136,309	741	137,050
Department of Social & Rehab. Services	4	147,180	6	103,240	6,247	109,487
Kansas Water Office	7	258,096	7	73,295	0	73,295
Kansas Juvenile Justice Authority	1	10,400	1	11,615	0	11,615
Other State of Kansas	14	956,627	21	906,734	3,711	910,445
OTHER GOVERNMENTAL UNITS	19	552,588	29	698,284	109,559	807,843
INDUSTRY	226	7,705,368	339	4,940,327	1,422,158	6,362,485
FOUNDATIONS & NON-PROFIT ORGANIZATIONS	161	10,022,947	306	9,001,286	765,045	9,766,331
OTHER	87	7,500,731	133	1,732,283	177,696	1,909,979
TOTAL	1,364	193,684,465	2,150	155,489,881	32,130,148	187,620,029