

# **RESEARCH & ECONOMIC** DEVELOPMENT **ANNUAL REPORT – FY 2017**

## **External Awards Snapshot**

Email: research@uwyo.edu

Website: www.uwyo.edu/research



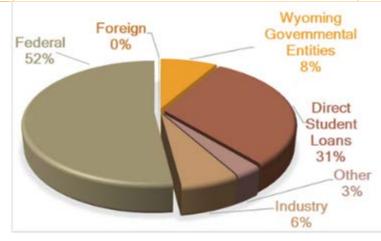
🐐 UNIVERSITY of WYOMING

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## AWARDS BY SPONSOR, FY17

SPONSOR	NEW AWARDS	AMENDMENTS	TOTAL AWARDI AMOUNT	ED
FEDERAL & FEDERAL PASS-THROUGH				
Corporation for National and Community Service	-	1	\$ 161,4	423
Department of Agriculture	51	28	\$ 7,871,7	724
Department of Commerce	3	3	\$ 776,4	481
Department of Defense	9	6	\$ 1,576,7	
Department of Education	8	28	\$ 14,221,0	065
Department of Energy	13	20	\$ 7,363,5	
Department of Health and Human Services	13	38	\$ 10,782,8	354
Department of Homeland Security	1	-	\$ 85,0	
Department of Interior	30	67	\$ 5,560,2	283
Department of Justice	1	-	\$ 115,8	
Department of Transportation	17	1	\$ 3,370,3	321
Department of Veteran Affairs	1	-	\$ 198,7	735
Environmental Protection Agency	2	2	\$ 393,7	785
Federal Communications Commission	-	1	\$ 62,3	353
National Aeronautics and Space Administration	8	19	\$ 2,335,0	062
National Endowment for the Arts & Humanities	3	-	\$ 34,0	
National Science Foundation	27	27	\$ 12,487,3	325
Small Business Administration	3	4	\$ 981,3	340
Total Federal	190	245	\$ 68,377,8	388
NON-FEDERAL				
Foreign	2	2	\$ 63,4	69
Industry	29	35	\$ 7,971,6	
Other	61	75	\$ 3,776,3	385
Wyoming Governmental Entities	71	24	\$ 10,938,4	
Total Non-Federal	163	136	\$ 22,749,9	
TOTAL FEDERAL & NON-FEDERAL	353	381	\$ 91,127,8	
DIRECT STUDENT LOANS	1	1	\$ 40,339,4	
			. ,	
GRAND TOTAL	354	382	\$ 131,467,3	300

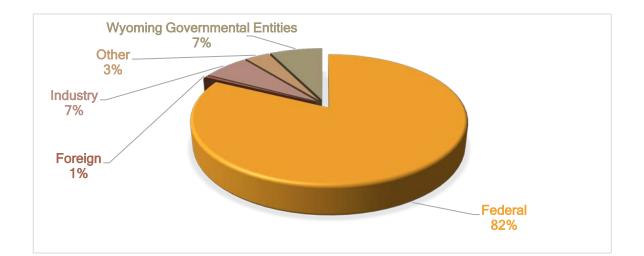


## **EXPENDITURES BY SPONSOR**

#### SPONSOR

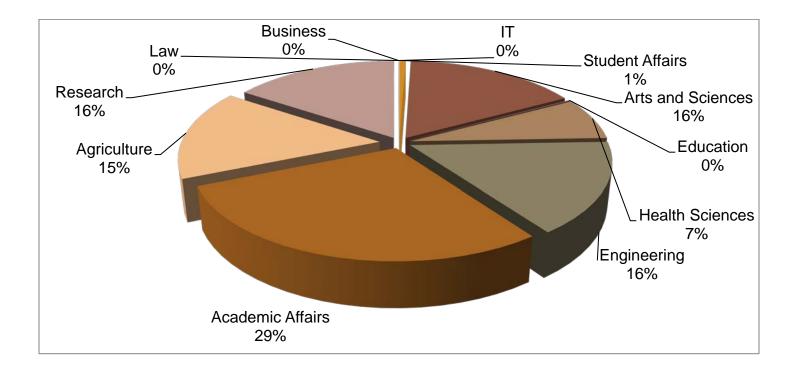
TOTAL EXPENDITURES

EDERAL	
Corporation for National and Community Service	\$ 185,997
Department of Agriculture	\$ 5,644,294
Department of Commerce	\$ 894,50 <sup>-</sup>
Department of Defense	\$ 2,234,00
Department of Education	\$ 56,345,12
Department of Energy	\$ 4,750,05
Department of Health and Human Services	\$ 13,598,43
Department of Homeland Security	\$ 65,56
Department of Interior	\$ 5,061,44
Department of Justice	\$ 235,56
Department of State	\$ 47,95
Department of Transportation	\$ 3,163,77
Department of Veterans Affairs	\$ 86,00
Environmental Protection Agency	\$ 414,53
Federal Communications Commission	\$ 15,45
National Aeronautics and Space Administration	\$ 2,245,62
National Endowment for the Arts and Humanities	\$ 20,66
National Science Foundation	\$ 14,875,85
Small Business Administration	\$ 841,81
Total Federal	\$ 110,726,67
ON-FEDERAL	
Foreign	\$ 657,23
Industry	\$ 8,696,40
Other	\$ 4,593,33
Wyoming Governmental Entities	\$ 9,953,04
Total Non-Federal	\$ 23,900,02
GRAND TOTAL	\$ 134,626,69



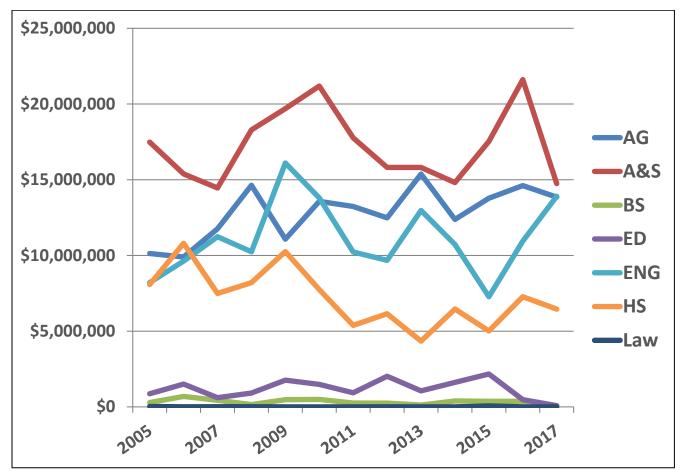
## **AWARDS BY ORGANIZATIONAL UNITS**

Ol	RGANIZATIONAL UNIT	NEW AWARDS	AMENDMENTS	TAL AWARDED OUNT
	College of Agriculture & Natural Resources	80	62	\$ 13,853,745
(	College of Arts & Sciences	99	95	\$ 14,743,243
(	College of Business	2	1	\$ 49,319
(	College of Education	1	5	\$ 82,197
(	College of Engineering	45	39	\$ 13,905,670
(	College of Health Sciences	17	48	\$ 6,455,023
(	College of Law	-	-	-
	nformation Technology	1	-	\$ 49,004
(	Office of Academic Affairs	45	54	\$ 25,699,079
(	Office of Administration & Finance	7	-	\$ 1,799,623
(	Office of Research	49	71	\$ 13,964,412
(	Office of Student Affairs	7	6	\$ 526,523
	<b>TOTAL FEDERAL &amp; NON-FEDERAL</b>	353	381	\$ 91,127,838
	DIRECT STUDENT LOANS	1	1	\$ 40,339,462
	GRAND TOTAL	354	382	\$ 131,467,300



## **AWARDS BY COLLEGE**

### Awards by College - Chart



### Highest Academic Department Awards by College:

Agriculture & Natural Resources (AG) - Family & Consumer Sciences	\$4,248,554
Arts & Sciences (A&S) - Zoology & Physiology	\$3,444,670
Business (BS) - Economics & Finance	\$ 49,319
Education (ED) - Secondary Education	\$ 68,304
Engineering (ENG) - Atmospheric Science	\$5,689,346
Health Sciences (HS) - Medical Education, Public Health & WWAMI/GME	\$ 950,515

DEPARTMENT	FEDERAL	N	ON-FEDERAL	TOTAL AWARDED AMOUNT
Agricultural and Applied Economics	\$ 676,750	\$	49,500	\$ 726,250
Agricultural Experiment Station	\$ 82,162	\$	425,858	\$ 508,020
Animal Science	\$ 1,728,844	\$	33,808	\$ 1,762,652
Cooperative Extension Service	\$ 1,141,809	\$	25,000	\$ 1,166,809
Dean's Office	\$ -	\$	6,600	\$ 6,600
Ecosystem Science & Management	\$ 1,433,720	\$	332,631	\$ 1,766,351
Family and Consumer Sciences	\$ 4,246,593	\$	1,961	\$ 4,248,554
Molecular Biology	\$ 1,777,047	\$	83,699	\$ 1,860,746
Plant Sciences	\$ 545,980	\$	379,800	\$ 925,780
Veterinary Sciences	\$ 101,817	\$	780,166	\$ 881,983
	\$ 11,734,722	\$	2,119,023	\$ 13,853,745

SPONSOR

2017 Invention &

Software Disclosures: 2

NOTE: The total federal

award amount does not

include the Ag Federal

receive as a land-grant

Formula funds we

institution

FEDERAL Department of Agriculture \$ 7,179,919 Department of Health and Human Services \$ 3,371,372 Department of Energy \$ 197,845 \$ Department of Interior 576,089 Environmental Protection Agency \$ 48,500 National Science Foundation \$ 369,473 **Total Federal** \$ 11,743,198 **NON-FEDERAL** Foreign Industry \$ 421,651 Other \$ 638,273 Wyoming Governmental Entities \$ 1,050,623 **Total Non-Federal** \$ 2,110,547

**GRAND TOTAL** 

\$

13,853,745

\$18 MILLIONS \$16 \$14 \$12 \$10 \$8 \$6 \$4 \$2 \$-100 mg mg mg 100 mg mg mg mg mg mg mg mg mg

### **College of Agriculture & Natural Resources**

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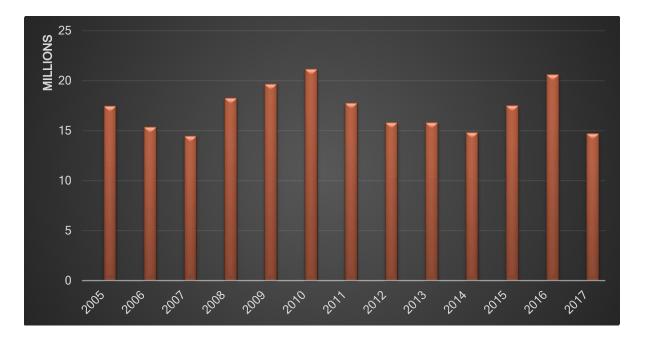
TOTAL AWARDED

AMOUNT

## College of Arts & Sciences

DEPARTMENT	FEDERAL	NC	N-FEDERAL	TOTAL AWARDED AMOUNT
African American & Diaspora Studies	\$ -	\$	-	\$ -
American Indian Studies	\$ -	\$	-	\$ -
American Studies	\$ 10,000	\$	2,000	\$ 12,000
Anthropology & Frison Institute	\$ 400,017	\$	221,931	\$ 621,948
Art	\$ -	\$	-	\$ -
Botany	\$ 1,608,812	\$	55,908	\$ 1,664,720
Chemistry	\$ 863,066	\$	-	\$ 863,066
Communications & Journalism	\$ -	\$	7,192	\$ 7,192
Criminal Justice	\$ -	\$	-	\$ -
Cultural Programs	\$ 4,000	\$	-	\$ 4,000
English	\$ -	\$	5,000	\$ 5,000
Gender & Women's Studies	\$ -	\$	-	\$ -
Geography	\$ -	\$	65,288	\$ 65,288
Geology & Geophysics	\$ 1,811,375	\$	38,497	\$ 1,849,872
Global & Area Studies	\$ -	\$	-	\$ -
History	\$ -	\$	-	\$ -
Latina/o Studies	\$ -	\$	-	\$ -
Life Sciences Program	\$ -	\$	-	\$ -
Mathematics	\$ 336,299	\$	7,000	\$ 343,299
Modern & Classical Languages	\$ -	\$	-	\$ -
Music	\$ -	\$	13,953	\$ 13,953
Philosophy	\$ -	\$	-	\$ -
Physics and Astronomy	\$ 975,810	\$	8,000	\$ 983,810
Political Science	\$ -	\$	-	\$ -
Psychology	\$ 31,810	\$	-	\$ 31,810
Religious Studies	\$ -	\$	1,500	\$ 1,500
Sociology	\$ -	\$	-	\$ -
Statistics	\$ 36,080	\$	-	\$ 36,080
Theatre and Dance	\$ -	\$	11,671	\$ 11,671
Wyoming Survey & Analysis Center	\$ 1,230,921	\$	3,552,443	\$ 4,783,364
Zoology and Physiology	\$ 2,619,372	\$	825,298	\$ 3,444,670
	\$ 9,927,562	\$	4,815,681	\$ 14,743,243

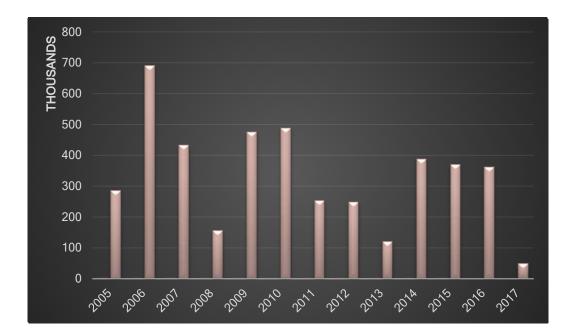
SPO	NSOR	ΤΟΤ	AL AWARDED AMOUNT
FEDI	ERAL		
De	partment of Agriculture	\$	275,602
2017 Invention & Software	partment of Commerce	\$	-
De	partment of Defense	\$	193,797
Disclosures: 11 De	partment of Energy	\$	268,045
De	partment of Health and Human Services	\$	567,663
De	partment of Interior	\$	3,039,519
De	partment of Justice	\$	115,891
De	partment of Transportation	\$	44,765
Na	tional Aeronautics and Space Administration	\$	926,439
Na	tional Endowment for the Arts & Humanities	\$	14,000
Na	tional Science Foundation	\$	4,526,606
Na	tional Security Agency	\$	-
	Total Federal	\$	9,972,327
	NON-FEDERAL		
Fo	reign	\$	57,296
	lustry	\$	162,731
Oth	ner	\$	2,199,941
Wy	oming Governmental Entities	\$	2,350,948
	Total Non-Federal	\$	4,770,916
			, , , , , , , , , , , , , , , , , , , ,
	GRAND TOTAL	\$	14,743,243



## College of Business

L	DEPARTMENT	FEDERAL	NC	N-FEDERAL	TOTAL AWARDED AMOUNT
	Accounting	\$ -	\$	-	\$ -
	Economics and Finance	\$ 49,319	\$	-	\$ 49,319
	Management & Marketing	\$ -	\$	-	\$ -
	MBA Program	\$ -	\$	-	\$ -
		\$ 49,319	\$	-	\$ 49,319

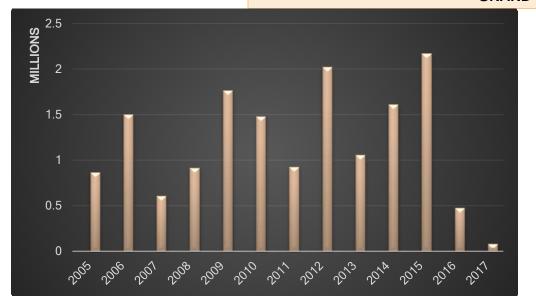
SPONSOR	 TOTAL WARDED AMOUNT
FEDERAL	
Department of Agriculture	\$ 19,400
Department of Energy	\$ 29,919
Total Federal	\$ 49,319
NON-FEDERAL	
Foreign	\$ -
Industry	\$ -
Other	\$ -
Wyoming Governmental Entities	\$ -
Total Non-Federal	\$ -
GRAND TOTAL	\$ 49,319



## College of Education

DEP	ARTMENT	F	EDERAL	NON-	FEDERAL	A	TOTAL NARDED MOUNT
Cu	rriculum & Instruction	\$	-	\$	-	\$	-
Ed	ucational Studies	\$	-	\$	-	\$	-
Ele	mentary & Early Childhood Education	\$	-	\$	-	\$	-
Pro	ofessional Studies	\$	-	\$	-	\$	-
Sci	ence-Math Teaching Center	\$	13,893	\$	-	\$	13,893
Se	condary Education	\$	66,304	\$	2,000	\$	68,304
		\$	80,197	\$	2,000	\$	82,197

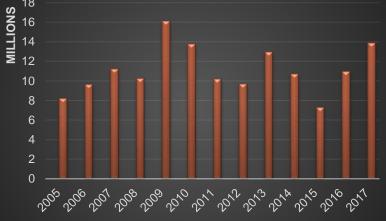
SPONSOR	TOTAL AWARDED AMOUNT
FEDERAL	
Department of Agriculture	\$ 13,893
Department of Education	\$ 15,715
National Aeronautics and Space Administration	\$ 50,589
Total Federal	\$ 80,197
NON-FEDERAL	
Foreign	\$ -
Industry	\$ -
Other	\$ 2,000
Wyoming Governmental Entities	\$ -
Total Non-Federal	\$ 2,000
GRAND TOTAL	\$ 82,197



## College of Engineering & Applied Science

DEPARTMENT	FEDERAL	NC	N-FEDERAL	TOTAL AWARDED AMOUNT
Atmospheric Science	\$ 5,689,346	\$	-	\$ 5,689,346
Chemical and Petroleum Engineering	\$ 1,204,344	\$	540,680	\$ 1,745,024
Civil and Architectural Engineering	\$ 2,123,724	\$	2,591,282	\$ 4,715,006
Computer Science	\$ 31,794	\$	-	\$ 31,794
Engineering Dean	\$ -	\$	-	\$ -
Electrical and Computer Engineering	\$ 341,113	\$	-	\$ 341,113
Mechanical Engineering	\$ 1,299,855	\$	83,533	\$ 1,383,388
	\$ 10,690,176	\$	3,215,495	\$ 13,905,671

	PONSOR	TOTAL AWARDED AMOUNT
2017 Invention & Software	EDERAL	
Disclosures: 39	Department of Agriculture	\$ -
	Department of Commerce	\$ 416,481
	Department of Defense	\$ 406,923
	Department of Energy	\$ 1,660,454
	Department of Health and Human Services	\$ 72,927
	Department of Interior	\$ 171,901
	Department of Transportation	\$ 1,620,986
	Environmental Protection Agency	\$ 233,231
	National Aeronautics and Space Administration	\$ 733,273
	National Science Foundation	\$ 5,374,000
	Total Federal	\$ 10,690,176
^	ION-FEDERAL	
	Foreign	\$ -
	Industry	\$ 2,340,795
	Other	\$ 58,270
	Wyoming Governmental Entities	\$ 816,430
18	Total Non-Federal	\$ 3,215,495
16	GRAND TOTAL	\$ 13,905,671

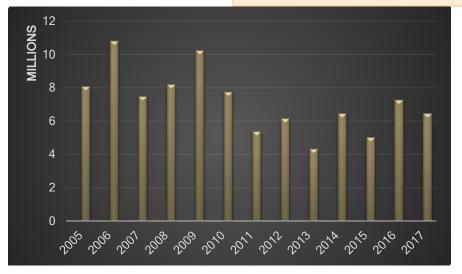


### **College of Health Sciences**

Ľ	DEPARTMENT	ŀ	EDERAL	NON- FEDERAL	 TOTAL WARDED AMOUNT
	Communication Disorders	\$	48,014	\$ -	\$ 48,014
	Health Science Dean's Office	\$	1,161,862	\$ 21,000	\$ 1,182,862
	Kinesiology & Health	\$	690,493	\$ 6,173	\$ 696,666
	Medical Education & Public Health & WWAMI/GME	\$	924,204	\$ 26,311	\$ 950,515
	Nursing	\$	-	\$ 19,985	\$ 19,985
	Pharmacy	\$	154,584	\$ 260,994	\$ 415,578
	Social Work	\$	-	\$ -	\$ -
	WIND	\$	1,047,842	\$ 2,093,541	\$ 3,141,383
		\$	4,026,999	\$ 2,428,004	\$ 6,455,003

#### TOTAL AWARDED AMOUNT

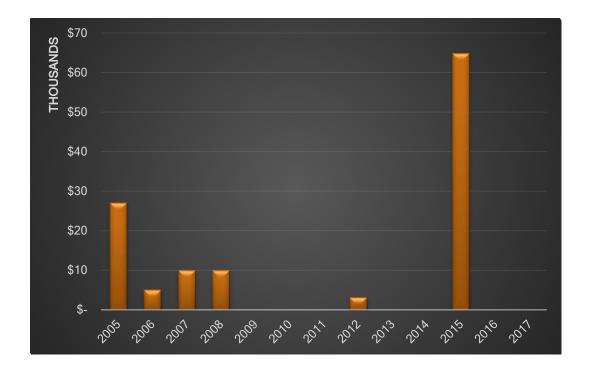
S	PONSOR	 AMOUNT
F	EDERAL	
	Department of Agriculture	\$ -
	Department of Education	\$ 147,644
	Department of Health and Human Services	\$ 3,586,563
	Department of Interior	\$ 31,704
	Department of Veteran Affairs	\$ 198,735
	Federal Communications Commission	\$ 62,353
	Total Federal	\$ 4,026,999
	NON-FEDERAL	
	Foreign	\$ 6,173
	Industry	\$ 204,594
	Other	\$ 122,316
	Wyoming Governmental Entities	\$ 2,094,941
	Total Non-Federal	\$ 2,428,024
	GRAND TOTAL	\$ 6,455,023



## College of Law

D	EPARTMENT	FED	PERAL	NON-	FEDERAL	AW	OTAL ARDED IOUNT
	College of Law	\$	-	\$	-	\$	-
		\$	-	\$	-	\$	-

SPONSOR	TOTAL AWARDED AMOUNT
FEDERAL	
Total Federal	\$-
NON-FEDERAL	
Total Non-Federal	\$ -
GRAND TOTAL	\$-



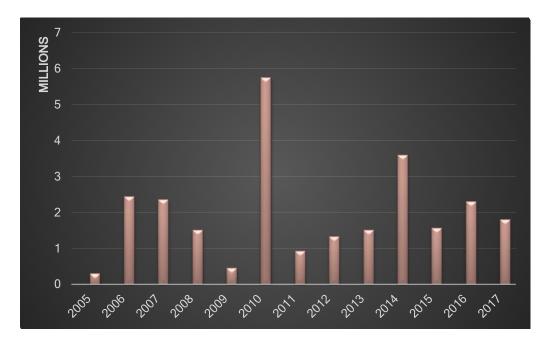
## AWARDS BY ADMINISTRATIVE UNITS

### Administration & Finance

DEPARTMENT		FEC	DERAL	NON	-FEDERAL	TOTAL AWARDED AMOUNT			
	Facilities Planning	\$	-	\$	-	\$	-		
	TransPark	\$	1,699,188	\$	-	\$	1,699,188		
	UW Police	\$	90,382	\$	10,053	\$	100,435		
		\$	1,789,570	\$	10,053	\$	1,799,623		

## TOTAL AWARDED

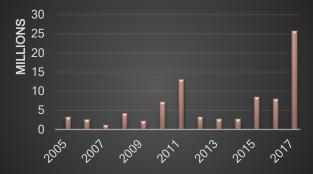
S	PONSOR	AMOUNT
F	EDERAL	
	Department of Homeland Security	\$ 85,000
	Department of Interior	\$ -
	Department of Transportation	\$ 1,704,570
	Total Federal	\$ 1,789,570
	NON-FEDERAL	
	Wyoming Governmental Entities	\$ 10,053
	Total Non-Federal	\$ 10,053
	GRAND TOTAL	\$ 1,799,623



### Academic Affairs

DEPARTMENT	FEDERAL	N	ON-FEDERAL	TOTAL AWARDED AMOUNT
American Heritage Center	\$ 51,952	\$	110,000	\$ 161,952
Art Museum	\$ 20,000	\$	24,132	\$ 44,132
Coe Library	\$ 116,174	\$	1,800	\$ 117,974
Haub School of Environment & Natural Resources	\$ 388,976	\$	192,570	\$ 581,546
International Programs	\$ -	\$	-	\$ -
Outreach School	\$ -	\$	-	\$ -
School of Energy Resources	\$ 3,757,244	\$	5,169,600	\$ 8,926,844
Student Educational Opportunity	\$ 4,332,120	\$	-	\$ 4,332,120
Student Financial Aid	\$ 10,463,804	\$	-	\$ 10,463,804
Wyoming Geographic Information Science Center	\$ 304,271	\$	766,436	\$ 1,070,707
	\$ 19,434,541	\$	6,264,538	\$ 25,699,079

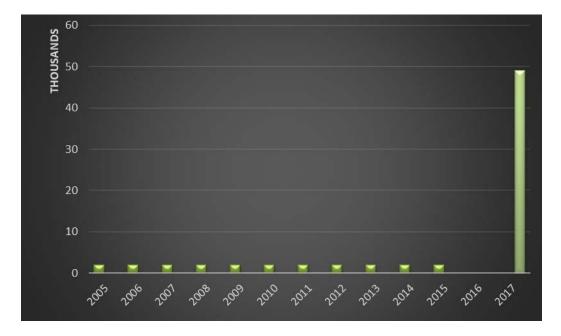
SPONSOR		TOTAL AWARDED AMOUNT
FEDERAL		
Department of Agriculture	\$	167,246
Department of Defense	\$	790,171
Department of Education	\$	14,057,706
Department of Energy	\$	3,757,244
Department of Health and Human Services	\$	89,923
Department of Interior	\$	462,196
Department of Transportation	\$	-
National Endowment for the Arts and Humanities	\$	20,000
National Security Agency	\$	-
National Science Foundation	\$	90,055
Total Federa	al \$	19,434,541
NON-FEDERAL		
Foreign	\$	-
Industry	\$	4,715,787
Other	\$	183,764
Wyoming Governmental Entities	\$	1,364,987
Total Non-Federa	al \$	6,264,538
DIRECT STUDENT LOAN	S \$	40,339,462
GRAND TOTA	L \$	66,038,541



## Information Technology

DEPARTMENT	FE	EDERAL	NON-F	EDERAL	A	TOTAL WARDED MOUNT
Advanced Research Computing Center	\$	49,004	\$	-	\$	49,004
	\$	49,004	\$	-	\$	49,004

SPONSOR	TOTAL AWARDED AMOUNT
FEDERAL	
National Science Foundation	\$ 49,004
Total Federal	\$ 49,004
NON-FEDERAL	
Foreign	\$ -
Industry	\$ -
Other	\$ -
Wyoming Governmental Entities	\$ -
Total Non-Federal	\$ -
DIRECT STUDENT LOANS	\$ -
GRAND TOTAL	\$ 49,004



### **Research & Economic Development**

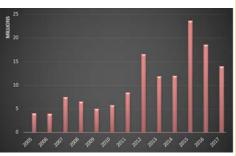
						TOTAL AWARDED	
DEPARTMENT		FEDERAL		NON-FEDERAL		AMOUNT	
DOE EPSCoR*	\$	1,450,000	\$	-	\$	1,450,000	
NASA EPSCoR**	\$	624,761	\$	-	\$	624,761	
NSF EPSCoR***	\$	2,024,376	\$	-	\$	2,024,376	
INBRE****	\$	3,089,407	\$	-	\$	3,089,407	
Manufacturing Works	\$	250,000	\$	719,662	\$	969,662	
Neuroscience Center	\$	-	\$	-	\$	-	
Office of Water Programs	\$	24,025	\$	384,529	\$	408,554	
Research Products Center	\$	-	\$	-	\$	-	
Small Business Development Center	\$	1,167,188	\$	1,121,847	\$	2,289,035	
UW-National Park Service	\$	62,500	\$	-	\$	62,500	
VP Research	\$	53,811	\$	95,000	\$	148,811	
Wyoming Public Radio	\$	-	\$	361,012	\$	361,012	
Wyoming Technology Business Center	\$	110,000	\$	203,790	\$	313,790	
Wyoming Natural Diversity Database	\$	1,462,567	\$	759,937	\$	2,222,504	
	\$	10,318,635	\$	3,645,777	\$	13,964,412	

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SPONSOR	AMOUNT
FEDERAL	
Department of Agriculture	\$ 181,164
Department of Defense	\$ 360,000
Department of Education	\$ 185,848
Department of Energy	\$ 1,450,000
Department of Health and Human Services	\$ 3,089,407
Department of Interior	\$ 1,255,874
Department of Transportation	\$ 112,054
National Endowment for the Arts and Humanities	\$ 624,761
National Security Agency	\$ 2,078,187
National Science Foundation	\$ 981,340
Total Federal	\$ 10,318,635
NON-FEDERAL	
Foreign	\$-
Industry	\$ 126,043
Other	\$ 491,321
Wyoming Governmental Entities	\$ 3,028,413
Total Non-Federal	\$ 3,645,777
DIRECT STUDENT LOANS	\$ -
GRAND TOTAL	\$ 13,964,412

\*DOE EPSCoR – Department of Energy, Established Program to Stimulate Competitive Research \*\*NASA EPSCoR – National Aeronautics Space Administration EPSCoR \*\*\*NSF EPSCoR – National Science Foundation EPSCoR

\*\*\*\*INBRE - IDEA Networks for Biomedical Research Excellence

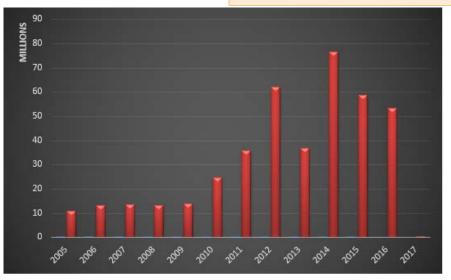


### **Student Affairs**

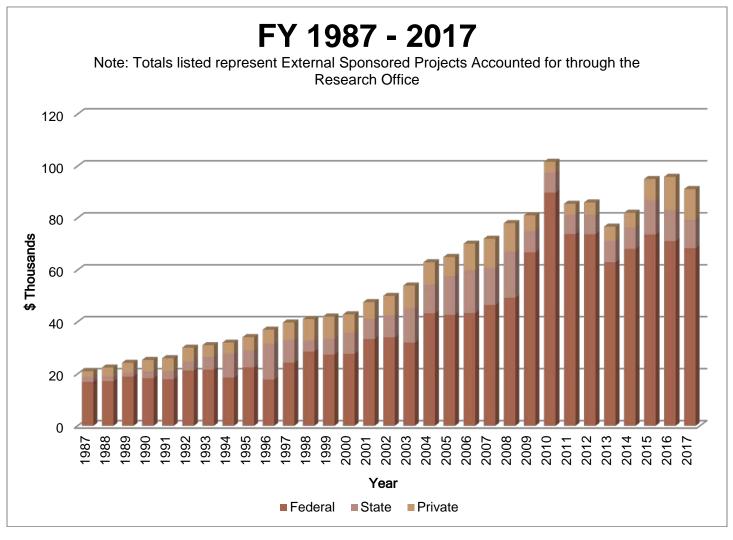
D	EPARTMENT	FEDERAL	NO	N-FEDERAL	TOTAL WARDED AMOUNT
	Associated Students of the Univ. of Wyoming	\$ -	\$	-	\$ -
	Counseling Center	\$ -	\$	30,100	\$ 30,100
	Residence Life & Dining	\$ 218,923	\$	272,500	\$ 491,423
	Student Educational Opportunity	\$ -	\$	-	\$ -
	VP Student Affairs	\$ 5,000	\$	-	\$ 5,000
	Wyoming Union	\$ -	\$	-	\$ -
		\$ 223,923	\$	302,600	\$ 526,523

## TOTAL AWARDED

SPONSOR		AMOUNT		
F	EDERAL			
	Cooperation for National and Community Service	\$	161,423	
	Department of Agriculture	\$	34,500	
	Department of Defense	\$	-	
	Department of Education	\$	-	
	Department of Health and Human Services	\$	5,000	
	Department of the Interior	\$	23,000	
	Department of Justice	\$	-	
	Total Federal	\$	223,923	
٨	ION-FEDERAL			
	Foreign	\$	-	
	Industry	\$	-	
	Other	\$	80,500	
	Wyoming Governmental Entities	\$	222,100	
	Total Non-Federal	\$	302,600	
	DIRECT STUDENT LOANS	\$	-	
	<b>TOTAL FEDERAL &amp; NON-FEDERAL</b>	\$	526,523	



## TOTAL EXTERNAL SPONSORED PROJECTS CHART



## PATENTS FILED BY DEPARTMENT

### University of Wyoming Invention & Software Disclosures for <u>Fiscal Year 2017\*</u> all Colleges

