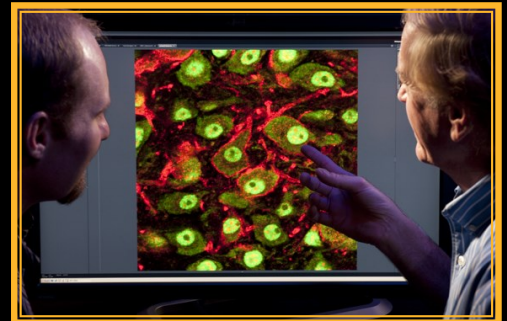


# Research & Economic Development

## Annual Report

### External Awards and Economic Development Snapshot FY 2015



UNIVERSITY OF WYOMING

---

In fiscal year 2015, the University of Wyoming received \$94,975,826 million in external awards from federal, state and industrial sources. This funding is the result of great work performed by UW faculty and staff and represents their competitiveness in an increasingly competitive environment for external awards.

These awards support all the University's key missions of research, teaching and service. The Office of Research and Economic Development (ORED) joins the campus community in celebrating how these awards support students, create new knowledge and new applications of existing knowledge, enhance the research infrastructure and support to the University's core service missions to the State of Wyoming.

This year's report contains the standard external sponsored program funding using historic methodologies for determining the \$94.5 million. This allow direct comparison to prior years' data. In addition, we show Direct Student Loans which UW now administers as a result of federal legislation shifting student loans from private lenders to the student's academic institution, this year there was approximately \$43 million in such funding. Direct Student Loans are not included in the \$95 million reported as external awards.

The Office of Research and Economic Development congratulates all campus members receiving external funding in the current highly competitive environment. Through your hard work, UW's reputation grows and our constituents' benefit. It is the ORED's pleasure to serve the campus community in this important work.



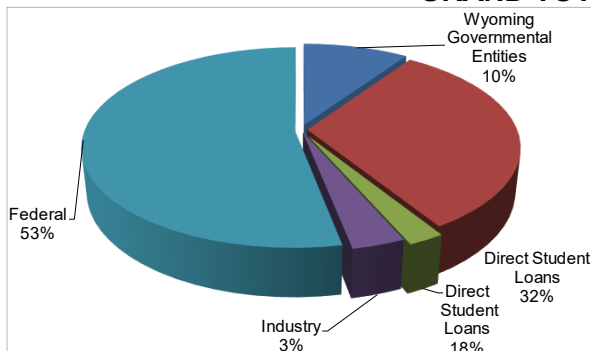
William A. Gern, Vice President  
Research & Economic Development

# Table of Contents

Awards by Sponsor.....	4
Expenditures by Sponsor .....	5
Awards to Organizational Units .....	6
<b>College Awards</b>	
College 10 Year Award Chart.....	8
Agriculture .....	9
Arts & Sciences .....	10-11
Business.....	12
Education.....	13
Engineering.....	14
Health Sciences .....	15
Law.....	16
<b>Administrative Awards</b>	
Administration and Finance .....	18
Academic Affairs .....	19
Research & Economic Development .....	20
Student Affairs.....	21
Total External Sponsored Projects Chart.....	22
Patents filed by Department .....	23
Economic Development Snapshot.....	25
Small Business Development Centers.....	26
Manufacturing-Works.....	28
Wyoming SBIR/STTR Initiative.....	29
Wyoming Research Products Center.....	30
Wyoming Technology Business Center.....	31

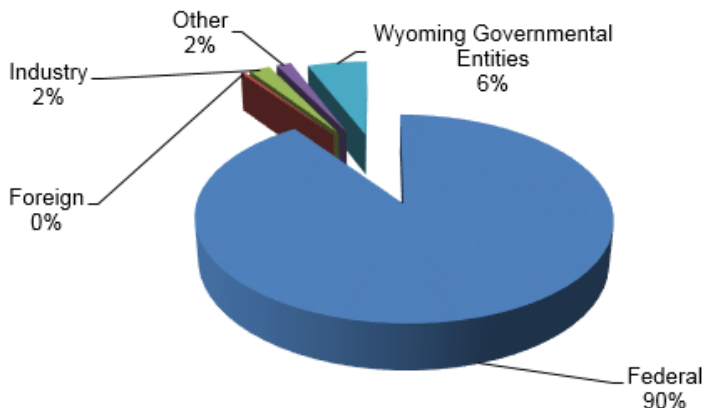
# Awards by Sponsor

SPONSOR	NEW AWARDS	AMENDMENTS	TOTAL AWARDED AMOUNT
<b>FEDERAL &amp; FEDERAL PASS-THROUGH</b>			
Agency for International Development	1	2	249,558
Department of Agriculture	54	17	7,195,552
Department of Commerce	5	2	789,407
Department of Defense	4	7	1,649,912
Department of Education	11	25	14,680,326
Department of Energy	6	13	5,195,591
Department of Health and Human Services	22	28	15,356,220
Department of Interior	42	42	6,532,184
Department of Justice	1	-	59,658
Department of State	1	-	194,460
Department of Transportation	15	6	3,074,315
Environmental Protection Agency	4	2	367,970
Federal Communications Commission	-	1	62,478
Institute of Environmental Conflict Resolution	1	-	5,000
National Aeronautics and Space Administration	11	12	2,057,763
National Endowment for the Arts & Humanities	12	2	72,985
National Science Foundation	37	21	15,293,914
Small Business Administration	2	1	759,798
<b>Total Federal</b>	<b>229</b>	<b>181</b>	<b>73,597,091</b>
<b>NON-FEDERAL</b>			
Foreign	3	2	128,649
Industry	24	29	4,772,292
Other	77	121	3,268,952
Wyoming Governmental Entities	88	28	13,208,842
<b>Total Non-Federal</b>	<b>192</b>	<b>180</b>	<b>21,378,735</b>
<b>TOTAL FEDERAL &amp; NON-FEDERAL</b>	<b>421</b>	<b>361</b>	<b>94,975,826</b>
<b>DIRECT STUDENT LOANS</b>	<b>1</b>	<b>1</b>	<b>43,755,418</b>
<b>GRAND TOTAL</b>	<b>422</b>	<b>362</b>	<b>138,731,244</b>



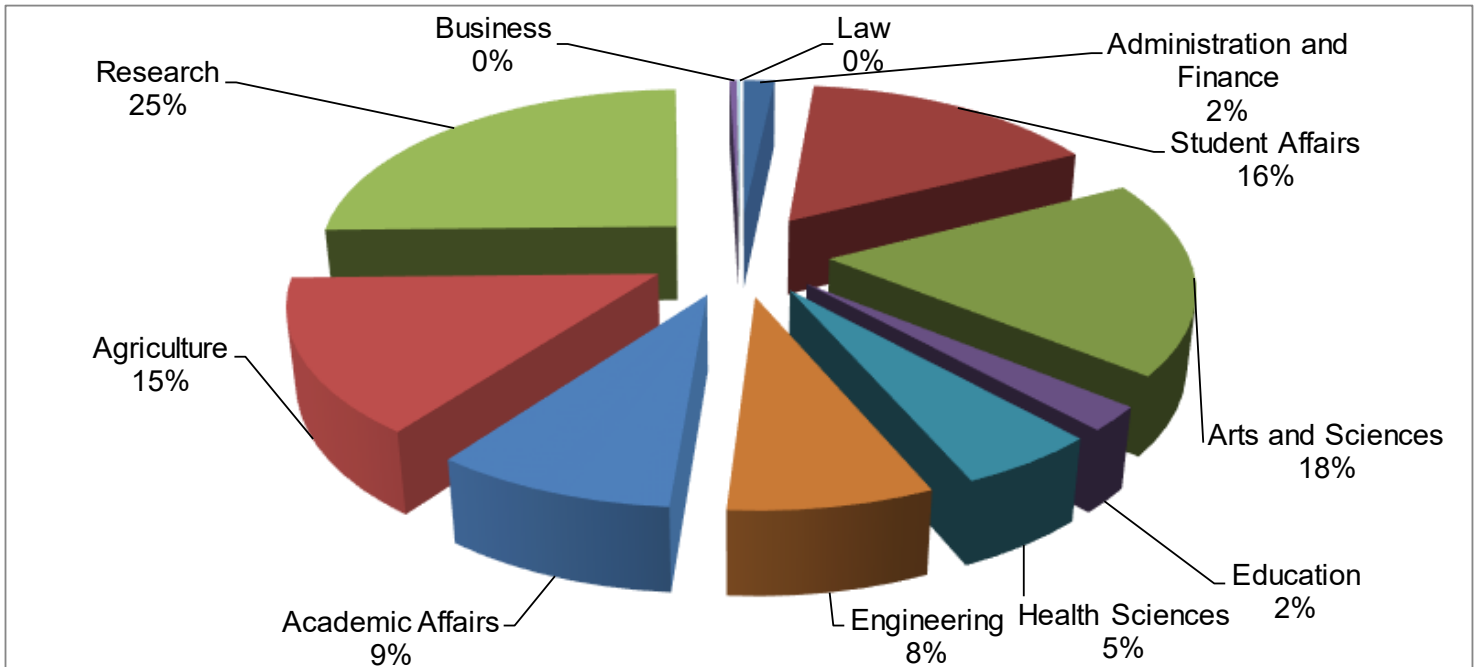
# Expenditures by Sponsor

SPONSOR	TOTAL EXPENDITURES
<b>FEDERAL</b>	
Agency for International Development	99,625
Corporation for National and Community Service	81,545
Department of Agriculture	5,365,228
Department of Commerce	781,334
Department of Defense	1,608,649
Department of Education	59,126,388
Department of Energy	3,429,039
Department of Health and Human Services	9,851,297
Department of Homeland Security	38,049
Department of Interior	27,103,999
Department of Justice	133,177
Department of State	337,960
Department of Transportation	2,744,013
Environmental Protection Agency	159,204
National Aeronautics and Space Administration	2,332,107
National Endowment for the Arts and Humanities	99,418
National Science Foundation	17,274,908
Small Business Administration	588,452
Other Federal	10,405
<b>Total Federal</b>	<b><u>131,164,797</u></b>
<b>NON-FEDERAL</b>	
Foreign	350,474
Industry	2,726,411
Other	2,383,841
Wyoming Governmental Entities	9,300,298
<b>Total Non-Federal</b>	<b><u>14,761,024</u></b>
<b>GRAND TOTAL</b>	<b><u>145,925,821</u></b>

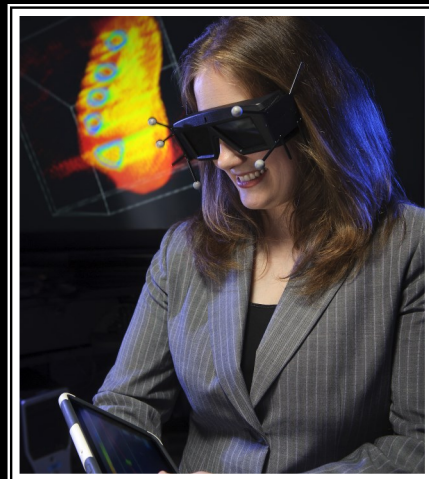
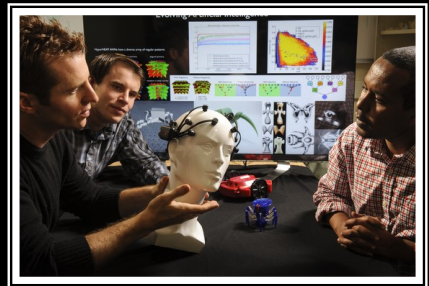
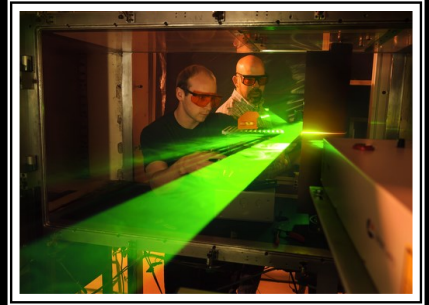


# Awards to Organizational Unit

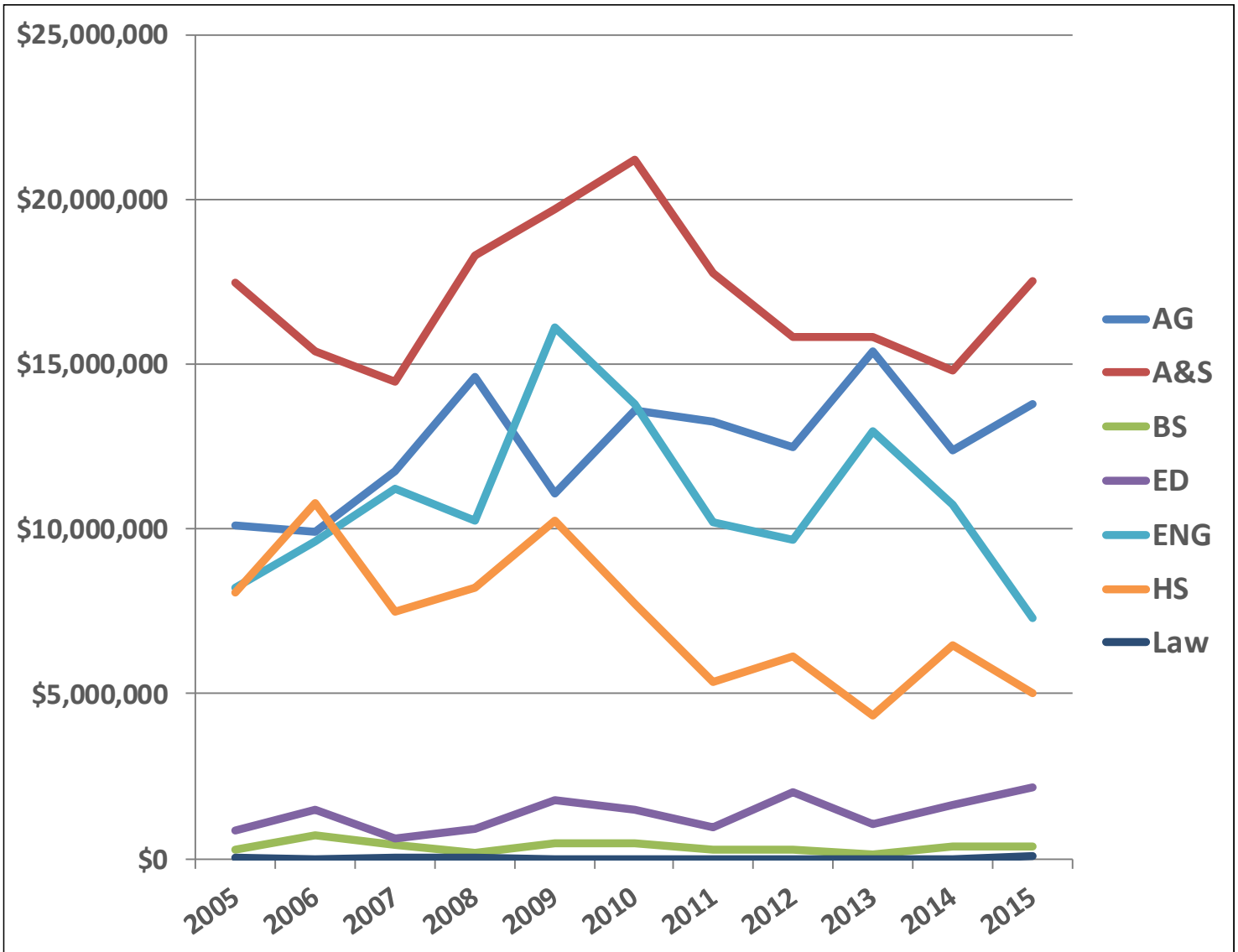
ORGANIZATIONAL UNIT	NEW AWARDS	AMENDMENTS	TOTAL AWARDED AMOUNT
College of Agriculture & Natural Resources	107	78	13,776,982
College of Arts & Sciences	149	89	17,527,841
College of Business	6	1	369,908
College of Education	5	3	2,170,997
College of Engineering	34	33	7,273,518
College of Health Sciences	18	37	5,012,731
College of Law	1	-	64,776
Office of Academic Affairs	29	19	8,564,894
Office of Administration & Finance	7	1	1,571,220
Office of Research	48	70	23,628,885
Office of Student Affairs	17	30	15,014,074
<b>TOTAL FEDERAL &amp; NON-FEDERAL</b>	<b>421</b>	<b>361</b>	<b>94,975,826</b>
<b>DIRECT STUDENT LOANS</b>	<b>1</b>	<b>1</b>	<b>43,755,418</b>
<b>GRAND TOTAL</b>	<b>422</b>	<b>362</b>	<b>138,731,244</b>



# AWARDS by COLLEGE



# Awards by College



## Highest Academic Department Awards by College:

Agriculture: (AG) - Ecosystems Science & Mngt	\$2,909,984
Arts & Sciences (A&S) - Zoology	\$3,364,952
Business (BS) - Economics & Finance	\$ 369,908
Education (ED) - STMC	\$1,896,251
Engineering (ENG) - Civil & Architectural	\$2,667,579
Health Sciences (HS) - Kinesiology & Health	\$1,085,225



# College of Agriculture & Natural Resources

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Agricultural and Applied Economics	719,240	87,213	806,453
Agricultural Experiment Station	689,087	14,465	703,552
Animal Science	2,058,735	9,100	2,067,835
Cooperative Extension Service	671,241	99,488	770,729
Dean's Office	5,000	-	5,000
Ecosystem Science & Management	1,907,341	1,002,643	2,909,984
Family and Consumer Sciences	2,020,913	10,470	2,031,383
Molecular Biology	2,305,086	313,134	2,618,220
Plant Sciences	390,920	395,006	785,926
Veterinary Sciences	756,845	321,055	1,077,900
	<b>11,524,408</b>	<b>2,252,574</b>	<b>13,776,982</b>

## 2015 Invention & Software Disclosures: 9

### SPONSOR FEDERAL

SPONSOR	TOTAL AWARDED AMOUNT
Agency for International Development	219,578
Department of Agriculture	5,419,030
Department of Defense	38,150
Department of Health and Human Services	3,958,389
Department of Interior	553,633
Department of State	194,460
Environmental Protection Agency	98,830
National Science Foundation	1,042,339

**Total Federal** **11,524,409**

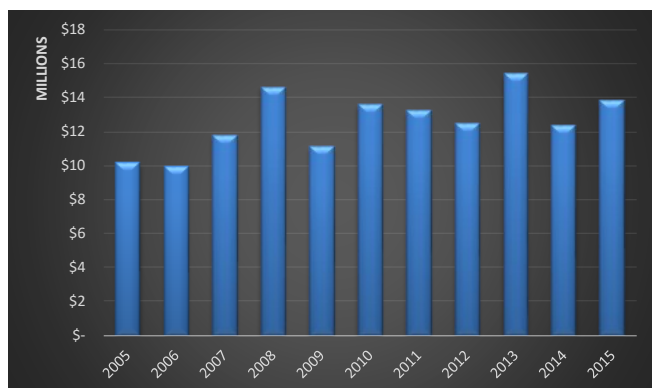
### NON-FEDERAL

Foreign	12,851
Industry	561,190
Other	538,205
Wyoming Governmental Entities	1,140,327

**Total Non-Federal** **2,252,573**

**GRAND TOTAL** **13,776,982**

Note: the total federal award column does not include the federal formula funds we received as a land-grant institution.



# College of Arts & Sciences

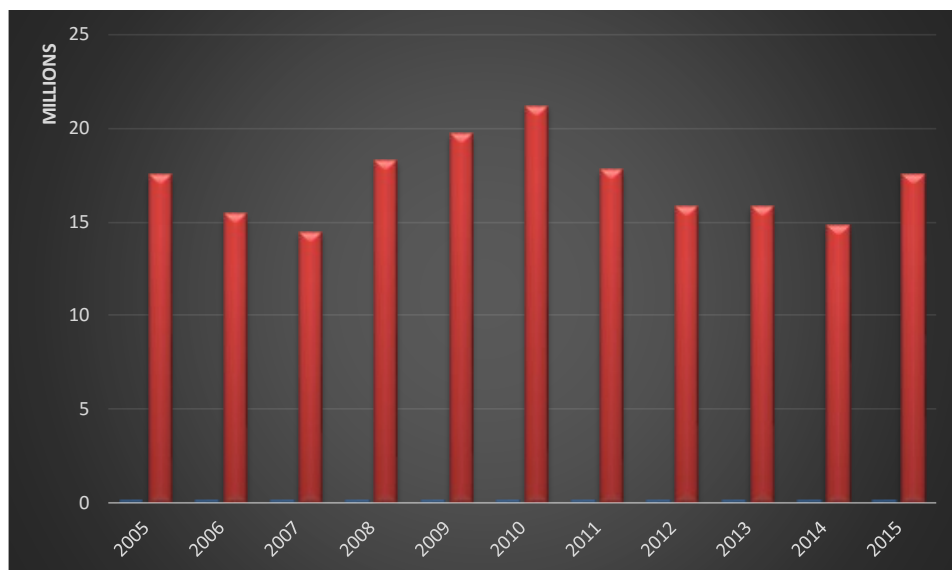
DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
African American & Diaspora Studies	-	-	-
American Indian Studies	-	-	-
American Studies	10,000	10,000	20,000
Anthropology & Frison Institute	648,711	226,500	875,211
Art	5,000	-	5,000
Botany	1,626,564	83,168	1,709,732
Chemistry	2,560,840	14,150	2,574,990
Communications & Journalism	-	20,716	20,716
Criminal Justice	-	-	-
Cultural Programs	10,000	-	10,000
English	-	5,000	5,000
Gender & Women's Studies	-	-	-
Geography	97,623	73,179	170,802
Geology & Geophysics	2,827,763	452,445	3,280,208
Global & Area Studies	7,926	-	7,926
History	-	-	-
Latina/o Studies	-	-	-
Life Sciences Program	-	-	-
Mathematics	1,289,590	-	1,289,590
Modern & Classical Languages	2,000	-	2,000
Music	250	10,717	10,967
Philosophy	-	-	-
Physics and Astronomy	1,500,286	26,341	1,526,627
Political Science	-	-	-
Psychology	23,824	925	24,749
Religious Studies	1,500	-	1,500
Sociology	39,565	-	39,565
Statistics	64,917	29,946	94,863
Theatre and Dance	-	8,923	8,923
WYSAC	1,352,065	1,132,455	2,484,520
Zoology and Physiology	1,875,789	1,489,163	3,364,952
	<b>13,944,213</b>	<b>3,583,628</b>	<b>17,527,841</b>



# College of Arts & Sciences continued

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Agriculture	572,238
Department of Commerce	19,407
Department of Defense	105,423
Department of Education	72,035
Department of Energy	1,474,199
Department of Health and Human Services	1,842,949
Department of Interior	1,139,897
Department of Justice	59,658
Department of Transportation	132,384
Environmental Protection Agency	89,000
National Aeronautics and Space Administration	1,435,048
National Endowment for the Arts & Humanities	36,676
National Science Foundation	6,965,299
<b>Total Federal</b>	<b><u>13,944,213</u></b>
<b>NON-FEDERAL</b>	
Foreign	110,283
Industry	212,800
Other	1,592,711
Wyoming Governmental Entities	1,667,834
<b>Total Non-Federal</b>	<b><u>3,583,628</u></b>
<b>GRAND TOTAL</b>	<b><u>17,527,841</u></b>

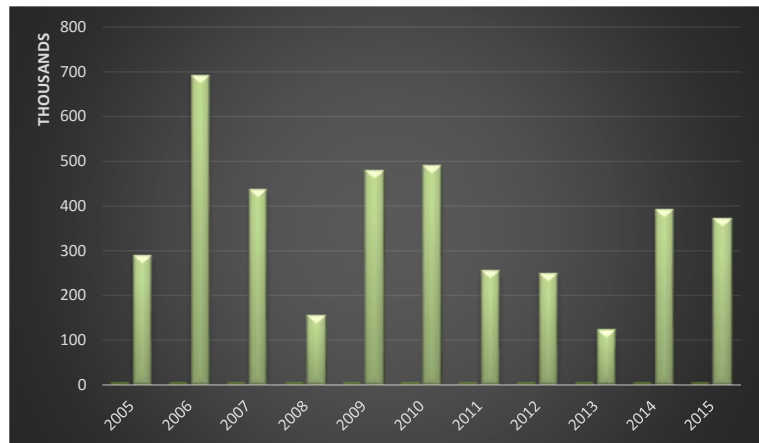
## 2015 Invention & Software Disclosures: 2



# College of Business

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Accounting	-	-	-
Economics and Finance	178,753	191,155	369,908
Management & Marketing	-	-	-
MBA Program	-	-	-
	<b>178,753</b>	<b>191,155</b>	<b>369,908</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Agency for International Development	29980
National Science Foundation	148,773
<b>Total Federal</b>	<b>178,753</b>
<b>NON-FEDERAL</b>	
Foreign	5,515
Industry	50985
Wyoming Governmental Entities	134,655
<b>Total Non-Federal</b>	<b>191,155</b>
<b>GRAND TOTAL</b>	<b>369,908</b>



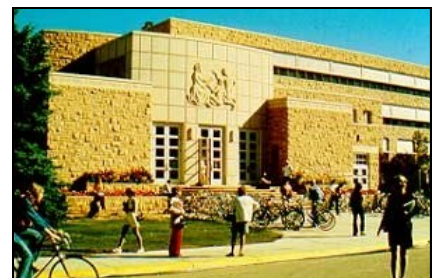
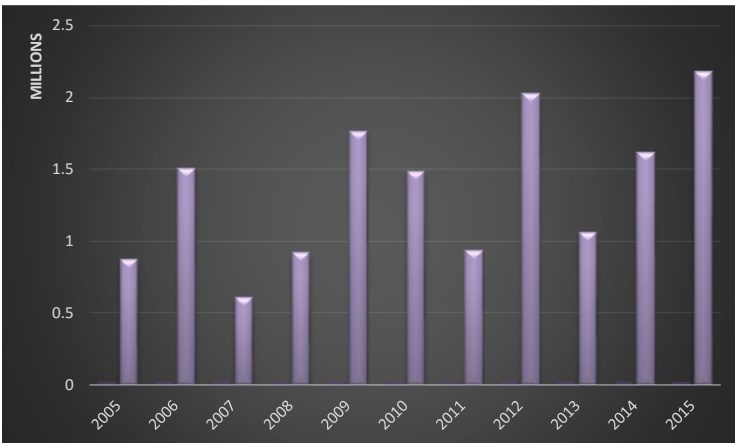
# College of Education

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Curriculum & Instruction	-	-	-
Educational Studies	-	4,140	4,140
Elementary & Early Childhood Education	-	-	-
Professional Studies	-	-	-
Science-Math Teaching Center	1,896,251	-	1,896,251
Secondary Education	243,382	27,224	270,606
	<b>2,139,633</b>	<b>31,364</b>	<b>2,170,997</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Commerce	20,000
Department of Education	265,237
National Aeronautics and Space Administration	
National Science Foundation	1,854,396
<b>Total Federal</b>	<b>2,139,633</b>

<b>NON-FEDERAL</b>	
Other	27,224
Wyoming Governmental Entities	4,140
<b>Total Non-Federal</b>	<b>31,364</b>

**GRAND TOTAL** **2,170,997**

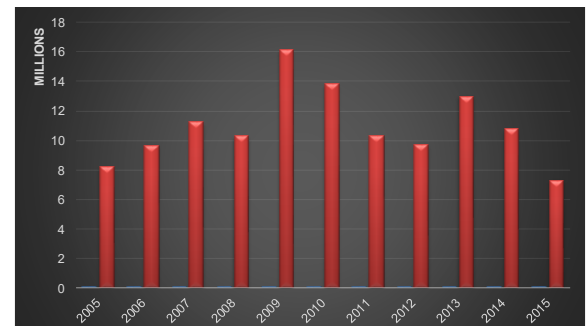
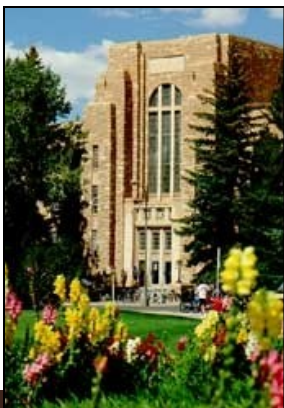


# College of Engineering

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Atmospheric Science	1,468,831	19,242	1,488,073
Chemical and Petroleum Engineering	514,845	451,497	966,342
Civil and Architectural Engineering	1,485,809	1,181,770	2,667,579
Computer Science	86,006	-	86,006
Engineering Dean	599,390	-	599,390
Electrical and Computer Engineering	409,526	-	409,526
Mechanical Engineering	403,613	652,988	1,056,601
	<b>4,968,020</b>	<b>2,305,497</b>	<b>7,273,517</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Commerce	40,000
Department of Defense	348,814
Department of Energy	756,385
Department of Health and Human Services	10,799
Department of Interior	757,415
Department of Transportation	1,273,786
National Aeronautics and Space Administration	497,715
National Science Foundation	1,283,106
<b>Total Federal</b>	<b>4,968,020</b>
<b>NON-FEDERAL</b>	
Foreign	
Industry	1,165,117
Other	57,232
Wyoming Governmental Entities	1,083,148
<b>Total Non-Federal</b>	<b>2,305,497</b>
<b>GRAND TOTAL</b>	<b>7,273,517</b>

*2015 Invention & Software Disclosures: 11*

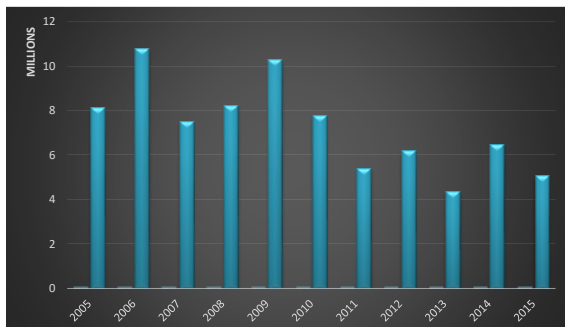


# College of Health Sciences

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Communication Disorders	142,577	-	142,577
Health Science Dean's Office	112,594	-	112,594
Kinesiology & Health	995,742	89,483	1,085,225
Medical Education & Public Health & WWAMI/GME	76,500	7,840	84,340
Nursing	-	180,368	180,368
Pharmacy	9,449	97,305	106,754
Social Work	-	-	-
WIND	2,407,862	893,011	3,300,873
	<b>3,744,724</b>	<b>1,268,007</b>	<b>5,012,731</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Agriculture	995,742
Department of Education	398,131
Department of Health and Human Services	2,288,373
Federal Communications Commission	62,478
<b>Total Federal</b>	<b>3,744,724</b>
<b>NON-FEDERAL</b>	
Industry	1,800
Other	395,336
Wyoming Governmental Entities	870,871
<b>Total Non-Federal</b>	<b>1,268,007</b>
<b>GRAND TOTAL</b>	<b>5,012,731</b>

## 2015 Invention & Software Disclosures: 2



Notes:

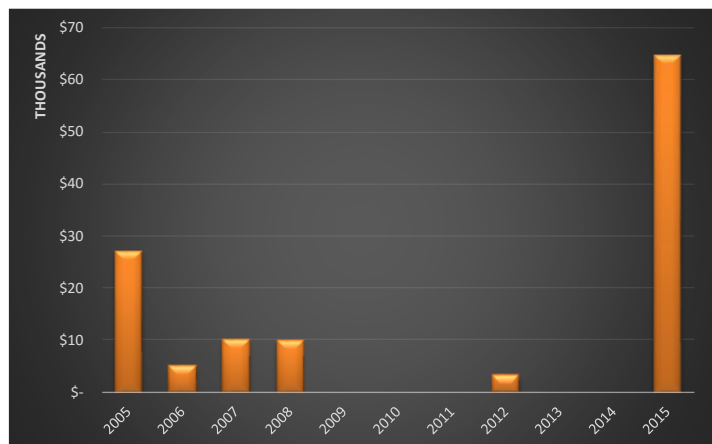
INBRE is reported under the Office of Research & Economic Development



# College of Law

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
College of Law	-	64,776	64,776
	-	<b>64,776</b>	<b>64,776</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>NON-FEDERAL</b>	
Wyoming Governmental Entities	64,776
<b>Total Non-Federal</b>	<b>64,776</b>
<b>GRAND TOTAL</b>	<b>64,776</b>



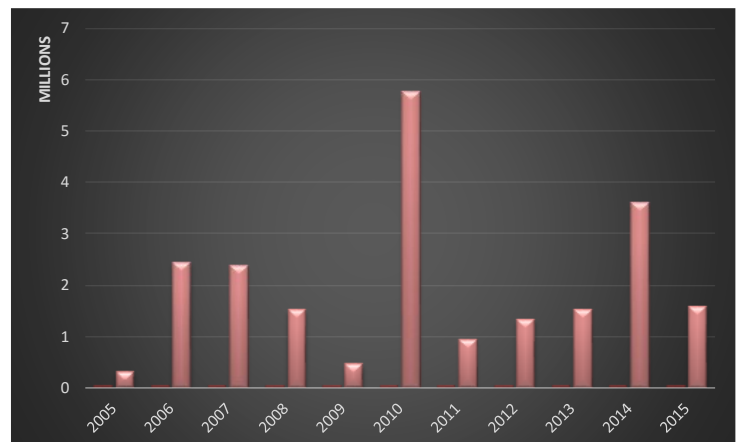


# **AWARDS by ADMINISTRATIVE UNIT**

# Administration and Finance

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Facilities Planning	-	76,200	76,200
TransPark	1,467,362	-	1,467,362
UW Police	13,768	13,890	27,658
	<b>1,481,130</b>	<b>90,090</b>	<b>1,571,220</b>

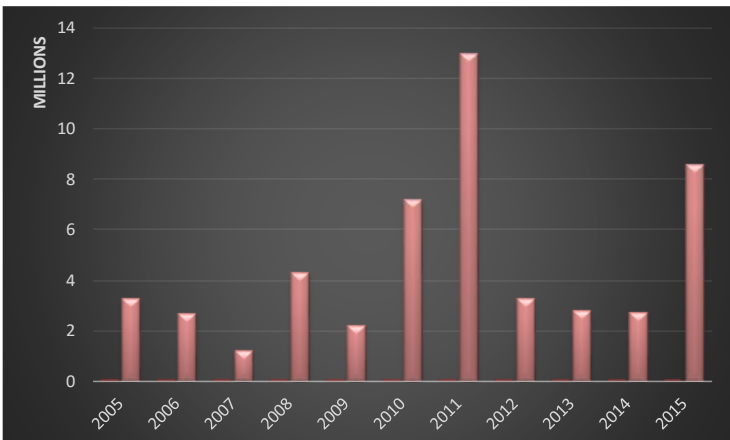
SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Transportation	1,481,130
<b>Total Federal</b>	<b>1,481,130</b>
<b>NON-FEDERAL</b>	
Other	76,200
Wyoming Governmental Entities	13,890
<b>Total Non-Federal</b>	<b>90,090</b>
<b>GRAND TOTAL</b>	<b>1,571,220</b>



# Academic Affairs

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
American Heritage Center	10,000	110,500	120,500
Art Museum	20,290	-	20,290
Coe Library	3,130,388	8,000	3,138,388
Institute for Environment & Natural Resources	267,954	5,500	273,454
Outreach School			-
School of Energy Resources	1,022,980	2,755,000	3,777,980
UW-Casper	226,864	-	226,864
Wyoming Public Radio			-
WYGISC	244,015	763,403	1,007,418
	<b>4,922,491</b>	<b>3,642,403</b>	<b>8,564,894</b>

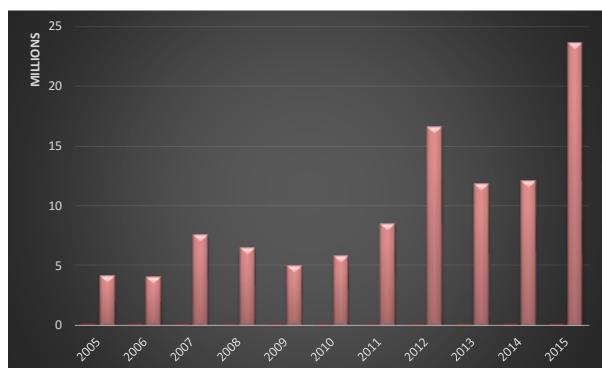
SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Agriculture	14,161
Department of Education	226,864
Department of Energy	1,022,980
Department of Health and Human Services	110,880
Department of Interior	3,325,301
Department of Transportation	187,015
Institute of Environmental Conflict Resolution	5,000
National Endowment for the Arts and Humanities	30,290
<b>Total Federal</b>	<b>4,922,491</b>
<b>NON-FEDERAL</b>	
Foreign	
Industry	2,765,900
Other	133,739
Wyoming Governmental Entities	742,764
<b>Total Non-Federal</b>	<b>3,642,403</b>
<b>GRAND TOTAL</b>	<b>8,564,894</b>



# Research & Economic Development

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
EPSCoR	6,067,026	-	6,067,026
INBRE	5,902,349	-	5,902,349
Manufacturing Works	1,200,000	1,542,855	2,742,855
Neuroscience Center	635,626	-	635,626
Office of Water Programs	92,335	397,338	489,673
Research Products Center	-	196,590	196,590
Small Business Development Center	1,008,481	1,606,704	2,615,185
UW-National Park Service	-	-	-
Vice President for Research	-	608,256	608,256
Wyoming Technology Business Center	110,000	2,354,300	2,464,300
WYNDD	919,529	987,496	1,907,025
	<b>15,935,346</b>	<b>7,693,539</b>	<b>23,628,885</b>

SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Department of Agriculture	194,382
Department of Commerce	710,000
Department of Defense	248,683
Department of Energy	1,942,026
Department of Health and Human Services	7,137,975
Department of the Interior	637,342
Environmental Protection Agency	180,140
National Aeronautics and Space Administration	125,000
National Science Foundation	4,000,000
Small Business Administration	759,798
<b>Total Federal</b>	<b>15,935,346</b>
<b>NON-FEDERAL</b>	
Other	393,102
Wyoming Governmental Entities	7,300,437
<b>Total Non-Federal</b>	<b>7,693,539</b>
<b>GRAND TOTAL</b>	<b>23,628,885</b>



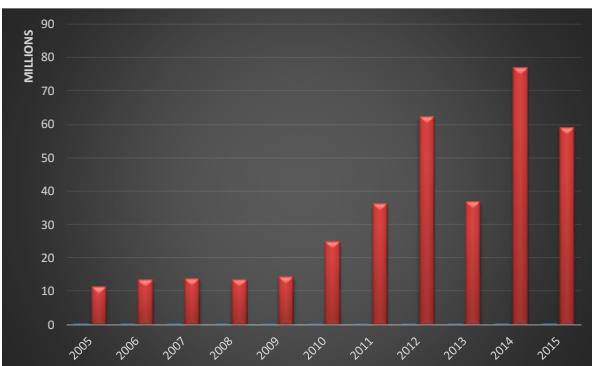
Note: INBRE, COBRE, EPSCoR are reported under Office of Research & Economic Development

# Student Affairs

DEPARTMENT	FEDERAL	NON-FEDERAL	TOTAL AWARDED AMOUNT
Center for Advising & Career Services	-	94,000	94,000
Dean of Students	6,855	-	6,855
Direct Student Loans	43,755,418	-	43,755,418
Residence Life & Dining	103,500	176,000	279,500
Student Educational Opportunity	2,934,944	-	2,934,944
Student Financial Aid	11,691,956	-	11,691,956
Student Financial Operations			-
VP Student Affairs			-
Wyoming Union	6,019	800	6,819
	<b>58,498,692</b>	<b>270,800</b>	<b>58,769,492</b>

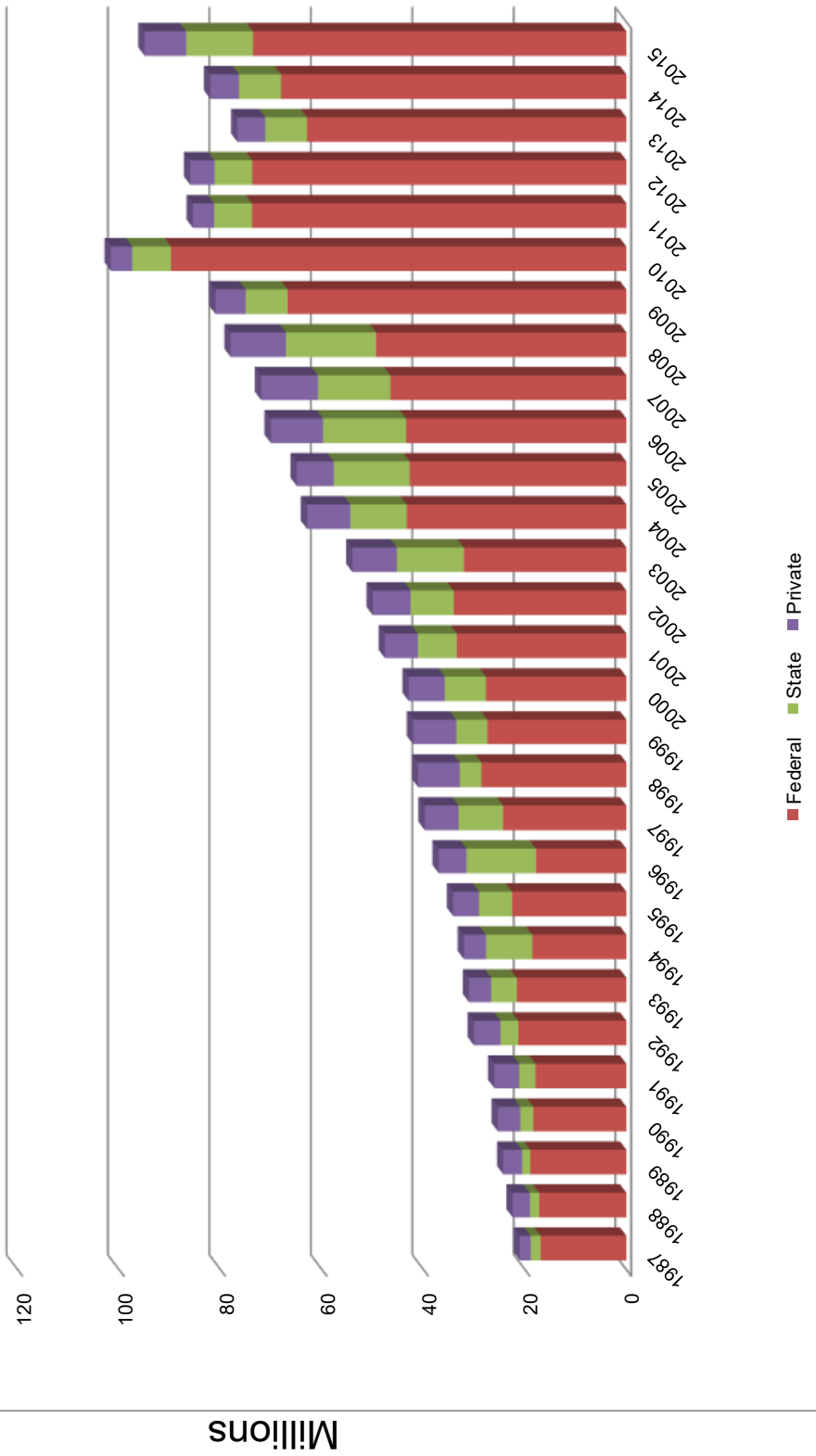
SPONSOR	TOTAL AWARDED AMOUNT
<b>FEDERAL</b>	
Cooperation for National and Community Service	
Department of Agriculture	
Department of Defense	908,842
Department of Education	13,718,058
Department of Health and Human Services	6,855
Department of the Interior	103,500
National Endowment for the Arts & Humanities	6019
<b>Total Federal</b>	<b>14,743,274</b>
<b>NON-FEDERAL</b>	
Industry	14,500
Other	70,300
Wyoming Governmental Entities	186,000
<b>Total Non-Federal</b>	<b>270,800</b>

<b>TOTAL FEDERAL &amp; NON-FEDERAL</b>	<b>15,014,074</b>
<b>DIRECT STUDENT LOANS</b>	<b>43,755,418</b>
<b>GRAND TOTAL</b>	<b>58,769,492</b>



# FY 1987 - 2015

Note: Totals listed represent External Sponsored Projects Accounted for through the Research Office



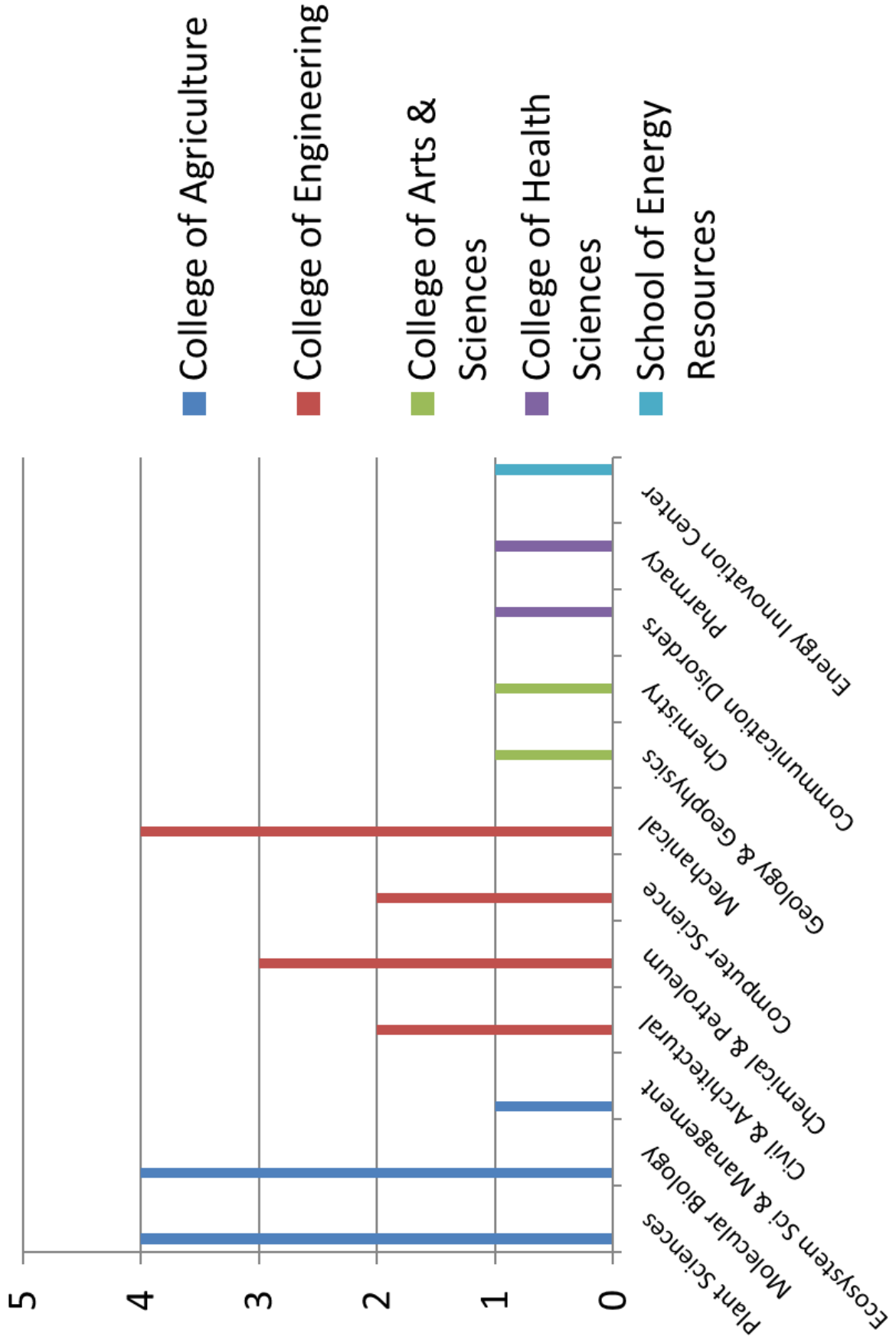
Notes: Federal pass-thru is included in the Federal dollars for FY 2009 -FY2012. In prior years federal pass-thru was included where it was awarded and not from the source of funds

Does not include Direct Student Loans

ARRA is included in the federal portion for 2009-2013

## University of Wyoming Invention & Software Disclosures for Fiscal Year 2015\* all Colleges

\*(7/1/2014 to 6/30/2015)



## Business Resource Network

Economic Development continues to be a major role for the University of Wyoming. Much of UW's work involves a unique relationship with the Wyoming Business Council (WBC) which produces important results for companies throughout the state. Called the **Business Resource Network** the University and the WBC, with federal partners, provide business assistance through several independent but coordinated organizations.

The **Wyoming Small Business Development Centers**, this time partnering with the U.S. Small Business Administration, provide a variety of services to small businesses of all types. **Manufacturing-Works**, a National Institute of Standards and Technology Manufacturing Extension Partnership entity provide a set of specific services to manufacturing businesses. **GRO-Biz**, a **Procurement and Technical Assistance Center** with federal funding provided by the Defense Logistics Agency provide training and assistance to Wyoming businesses desiring to provide goods and services to the federal, state and now local governments.

The **Wyoming Market Research Center** which has no federal partner is an organization employing a variety of databases to give small businesses clear market analysis as they contemplate growth and change. The **Wyoming SBIR/STTR Initiative** provides specific assistance to Wyoming innovation based companies to compete for federal SBIR and STTR funding and it runs the unique **Wyoming Phase 0** program which provides contracts to Wyoming businesses on a competitive basis to develop federal Phase 1 or Phase 2 proposals. The **Research Products Center** handles intellectual property transactions (patenting, licensing and copyrighting) for the University of Wyoming specifically and teaches Wyoming inventors how to protect intellectual property and, conducts to patent searches for such inventors.

Together, these six organizations provide a host services for Wyoming small businesses that is unique in the United States. The Wyoming Business Council provides the state matching funds to these organizations and the University of Wyoming provides management. All share the common philosophy that no one succeeds until there is client success.

Finally the University of Wyoming operates the **Wyoming Technology Business Center** which is a technology-related business incubator in Laramie. This center provides specific client counseling to two distinct set of clients, those called "pre-venture" clients or those that are taking initial steps towards developing a business or have formed a nascent company. Currently about 30 such companies are receiving assistance. The other group are those companies occupying space within the WTBC and are receiving the in-depth counseling services of the WTBC professionals. Making the WTBC unique is a contract with the Wyoming Business Council to manage a Tier 2+ data center in the basement of the incubator building. This data center provides high speed connectivity for companies occupying space within the incubator or who are WTBC graduates. The WTBC now manages incubators in Sheridan and Casper, Wyoming.

The University of Wyoming understands the deep responsibility associated with providing assistance to Wyoming business and in helping to grow technology-based businesses to provide diversification. The following is a report of Economic Development activity for the past year.



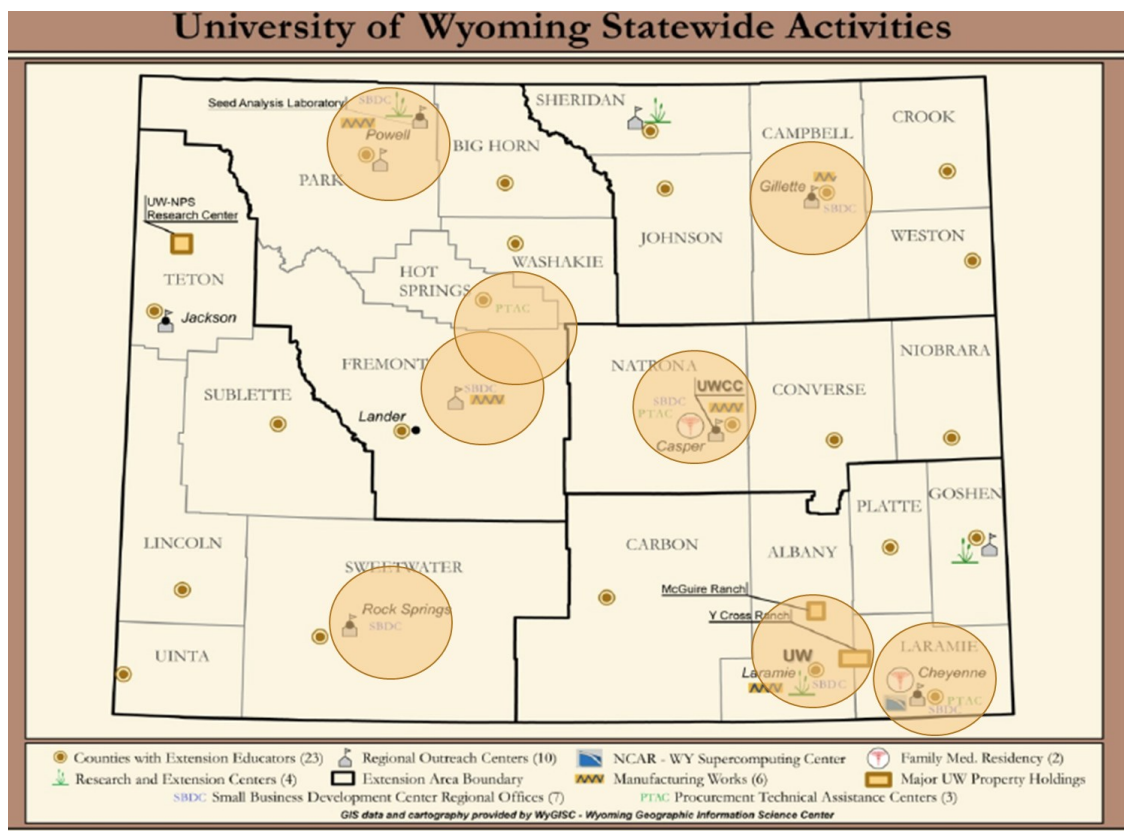
# Economic Development Snapshot

## *Economic Development Outreach Programs*

### *Resources at your fingertips*

- Small Business Development Centers 1994
- PTAC 2000
- Market Research Center 1999
- Manufacturing-Works 1995
- Wyoming SBIR/STTR 1995
- Research Products Center 1998
- Wyoming Technology Business Center 2006

UW-Wyoming Business Council Partnership formed in 1998



# Small Business Development Centers

*Wyoming Entrepreneur* is a network of three programs at the University of Wyoming, with offices throughout the state. The programs include the Small Business Development Center (SBDC), Procurement Technical Assistance Center (PTAC) and Market Research Center (MRC).

Wyoming Entrepreneur consists of a partnership between the University of Wyoming, the Wyoming Business Council and the U.S. Small Business Administration.

In order to best serve entrepreneurs in Wyoming, we have developed a number of consulting specialties which include selling to government, business plans, marketing plans, financial health checkup, business valuation, eCommerce, succession planning, international trade, tourism marketing, market research, business ethics, social media, QuickBooks, and others.

## **FY15:**

- \$ 13,039,974 capital impact
- 1541 jobs created or retained
- 2152 clients assisted
- Business Startups 110
- 62 training events – 790 attendees, 1,742.5 training hours

## **Twenty-one years of assisting clients (1994-2015):**

- 42,358 clients have been served
- \$213,339,192 capital impact
- 11,466 jobs created or retained

## **Funding**

Federal (SBA) \$638,889 base + \$85, 884 supplemental for a total =\$724,773  
State (WBC) \$806,278  
UW also provides match

## **Procurement Technical Assistance Center (PTAC)**

The Wyoming Entrepreneur Procurement Technical Assistance Center's mission is to assist Wyoming firms with identifying and securing federal, state, and local government contracting opportunities. We are here to help you navigate the government contracting learning curve and make the whole process a little easier.

### **FY15**

- 230 active client base
- \$15,343,664 total dollar value of prime contract and subcontract awards received by all small business concerns
- 307 jobs created or retained

### **Sixteen years assisting clients:**

- \$176,045,807 cumulative total of contract awards
- 10,654 cumulative total of attendees trained on procurement topics
- 3,521 jobs created or retained

**Funding**

Federal (DLA) \$267,000  
State (WBC) \$133,887  
UW also provides matching

**Market Research Center (MRC)**

The Wyoming Market Research Center is part of the Wyoming Small Business Development Center and it provides data to the SBDC as they assist clients. The Market Research Center offers a wide variety of research and information services to Wyoming businesses. All services are free of charge and enable businesses in Wyoming to access sophisticated resources that are normally not accessible to Wyoming businesses.

**FY 15**

455 clients assisted  
754 projects researched

**Thirteen years of assisting clients**

4,196 clients assisted  
6,295 projects researched

Clients assisted may cross over between SBDC and MRC due to referrals from other programs.

**Funding**

State (WBC) \$312,476  
UW also provides match

Clients assisted may cross over between SBDC and MRC due to referrals from other programs.



# Manufacturing-Works



The National Institutes of Standards and Technology is the federal partner offering the Manufacturing Extension Partnership, of which Wyoming's Manufacturing Works is a member. This program provides a set of specific services to assist manufacturing businesses (as determined by NAICS Code) throughout Wyoming.

## FY 15

\$14,815,600 capital impact  
\$6,700,200 decreased costs  
\$2,994,000 increased sales  
50 jobs created or retained  
448 clients assisted

## 20 years of assisting clients

\$127,321,706 capital impact  
\$226,287,020 increased sales  
\$170,282,660 in decreased costs  
2,360 jobs created or retained

## Funding:

Federal (NIST) - \$500,000  
State (WBC) - \$608,853



# Wyoming SBIR/STTR Initiative



The Mission of the WSSI is to assist all qualified Wyoming small businesses and individuals in accessing the federal funding opportunities provided by the Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) Programs; ~\$2 billion annually.

## Federal FY 2015

Total Federal \$1,024,998  
Total awards 4 Phase I and 1 Phase II Awards

## 16 years of assisting clients

Total Federal \$54296267  
Total awards 217

## Funding\*

State \$304,128

\*only the federal Phase I and Phase II awards per [www.SBIR.gov](http://www.SBIR.gov), [http://www.nifa.usda.gov/funding/sbir/sbir\\_abstracts.html](http://www.nifa.usda.gov/funding/sbir/sbir_abstracts.html), and <https://sbir.nih.gov/statistics/award-data> made to Wyoming small technology businesses reported above, there is no federal administrative program available.

# Wyoming Research Products Center

The RPC is the technology transfer office for the University of Wyoming and assists Wyoming entrepreneur or inventor across the state with questions regarding IP protection for technology. We will work closely and supportively with Wyoming citizens and companies to help them identify, protect and commercialize their intellectual property.

## FY15

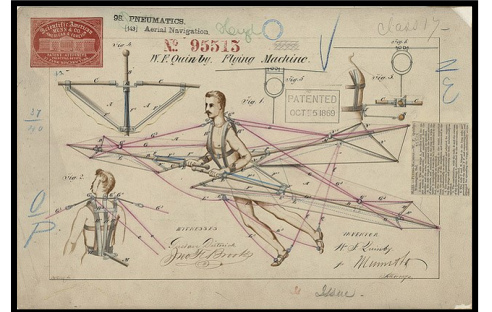
- 19 provisional patent applications
- 21 Non-provisional (Utility, PCT, Foreign) patent applications
- 17 patents issued
- 4 UW IP Agreements signed
- 84 Independent Wyoming Inventor IP projects and 27 UW IP Projects

## 16 years of assisting clients

- 772 total UW patent applications filed or co-owned
- 168 UW patents issued
- over 1000 UW IP Agreements signed
- 60 patent options, licenses, assignments
- over 1050 independent Wyoming inventor IP projects

## Funding\*

- State \$98,295
- UW provides salary and benefits for the state director,
- \*no federal program available, this program is unique to Wyoming



# Wyoming Technology Business Center

The WTBC focuses on developing early stage, technology-based companies with an emphasis on high-growth firms.

One-on-one business counseling program

Executive coaching services

Incubator/Outreach (Laramie and Statewide)

e2e events - statewide networking opportunities

**Business development program, 30,000 sq. ft. facility with:**

State-of-the-art data center

Office space, laboratories

Shared conference room space for client companies

State-of-the-art data center

## FY 2015

18 WTBC Laramie incubator client companies  
51.5 WTBC Laramie incubator client companies FTE employees  
5 WTBC Laramie incubator graduates (total) - 1 additional graduate in FY2016  
100 WTBC Laramie incubator graduate FTE employees  
\$65,000 WTBC Laramie incubator graduates average salary (aggregate reporting)

12 WTBC Casper incubator client companies  
43 WTBC Casper incubator client companies FTE employees

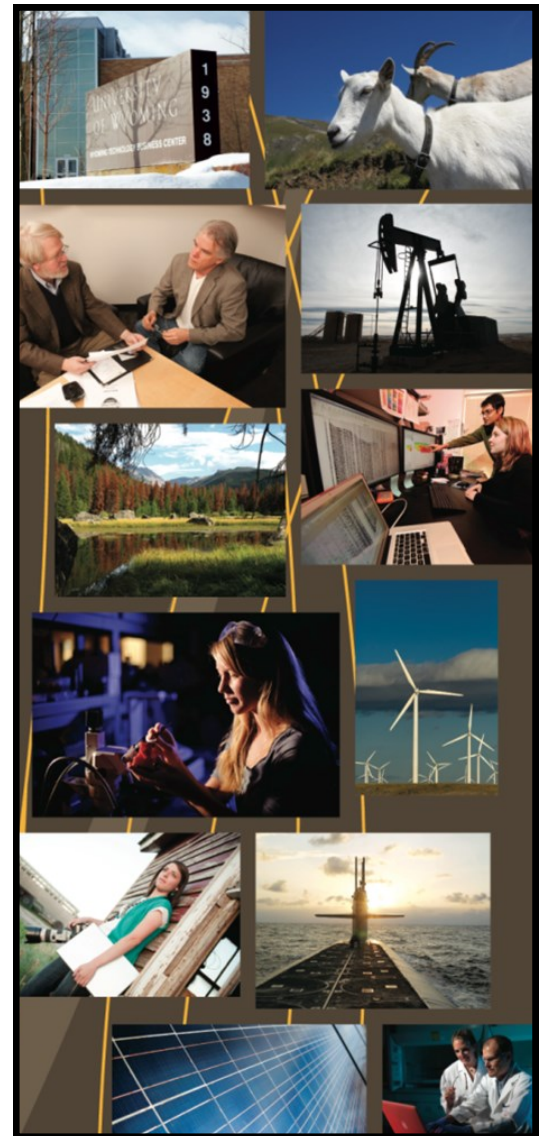
3 WTBC Sheridan incubator client companies  
6 WTBC Sheridan incubator client companies FTE employees

## 2014 by the Numbers – as reported by clients (numbers to be updated in February 2016)

2 Incubator Locations  
24 WTBC incubator clients  
68 FTE employees  
\$2.1M total WTBC incubator client payroll  
\$7.2M WTBC incubator client annual revenue  
22 SBIR grants received since founding  
61 patents filed since founding  
5 WTBC incubator graduates  
100+ WTBC incubator graduate FTE employees  
21,500 sq. ft. office space occupied by WTBC graduates

## Outreach:

e2e Wyoming events Laramie, Casper, and Sheridan  
5,000+ total attendees from 2009-2014  
Notable speakers from: BD, Autodesk, American Express, Yahoo!, ambreenergy, WTBC Incubator graduate, Jared Stack



Fiscal Year (FY) 2015 spans the period July 1, 2014 through June 30, 2015.

Agency Abbreviations

NSF: National Science Foundation  
NASA: National Aeronautics and Space Administration  
EPA: Environmental Protection Agency  
NARA: National Archives and Records Administration  
DHHS: Department of Health and Human Services  
HUD: Department of Housing and Urban Development  
UDSA: Department of Agriculture  
NEAH: National Endowment for the Arts and the Humanities  
SBA: Small Business Administration  
VA: Department of Veteran Affairs

Department Abbreviations:

ASUW: Associated Students of the University of Wyoming (Student Government)  
EPSCOR: Experimental Program to Stimulate Competitive Research  
EORI: Enhanced Oil Recovery Institute  
UW-NPS: University of Wyoming-National Park Service Research Center  
SBDC: Small Business Development Center  
WYNDD: Wyoming Natural Diversity Database  
IENR: Institute of Environment and Natural Resources  
WYGISC: Wyoming Geographic Information Science Center  
AHC: American Heritage Center  
SER: School of Energy Resources  
CRHRE: Center for Rural Health Research and Education  
MEPH: Medical Education and Public Health  
WWAMI: Washington, Wyoming, Alaska, Montana, and Idaho  
GME: General Medical Education

Other Abbreviations:

Inst: Institute  
Dept: Department  
Natl: National

---

Contact:

Office of the Vice President for Research & Economic Development

Old Main 305-308

Ph: 307-766-5353/5320

Fax: 307-766-2608

Website: [www.uwyo.edu/research/](http://www.uwyo.edu/research/)