

WSU Research & Development (R&D) Expenditures (\$'000s): NSF HERD Survey

Higher Education Research & Development

Fiscal Year	Federal				State		Industry			Institution		All Other	Total R&D			
	Sub total	Appropriation	Grants & Contracts	% Change Federal	% Change State	Sub total	Business	Non Profit	% Change Industry	Sub total	% Change Institutional		Total R&D	% Change Total	S&E Only (pre-2010 "Total R&D")	R&D in Constant (2016) Dollars (\$'000)
1992	38,213				5,129	2,459				31,051		8,228	85,080	85,080	134,105	
1993	43,678			14%	5,482	2,726			11%	32,006	3%	8,542	92,434	92,434	142,119	
1994	45,691	4,303	41,388	5%	4,239	3,151			16%	32,558	2%	9,180	94,819	94,819	142,862	
1995	49,040	3,931	45,109	7%	3,596	2,537			-19%	32,943	1%	8,629	96,745	96,745	142,712	
1996	48,807	4,665	44,142	0%	3,049	3,149			24%	34,042	3%	9,594	98,641	98,641	142,524	
1997	45,030	3,953	41,077	-8%	3,495	3,138			0%	36,243	6%	9,794	97,700	97,700	138,850	
1998	44,510	2,774	41,736	-1%	3,302	3,158			1%	34,430	-5%	10,022	95,422	95,422	134,594	
1999	44,610	3,284	41,326	0%	3,583	3,158			0%	34,556	0%	11,036	96,943	96,943	134,716	
2000	48,441	3,803	44,638	9%	4,284	4,579			45%	36,280	5%	11,212	104,797	104,797	142,125	
2001	48,660	3,476	45,184	0%	5,458	4,438			-3%	38,470	6%	10,911	107,937	107,937	143,619	
2002	61,138	4,078	57,060	26%	5,699	3,874			-13%	67,107	74%	9,045	146,863	146,863	192,683	
2003	70,782	3,576	67,206	16%	7,189	3,666			-5%	83,601	25%	10,551	175,789	175,181	226,158	
2004	77,546	4,761	72,785	10%	28,971	3,112			-15%	54,280	-35%	11,235	175,144	171,737	220,053	
2005	81,175	3,711	77,464	5%	31,120	3,325			7%	50,817	-6%	18,845	185,282	182,677	226,233	
2006	84,779	4,216	80,563	4%	33,009	2,868			-14%	72,108	42%	10,776	203,540	196,389	242,228	
2007	79,439	4,118	75,321	-6%	35,607	7,781			171%	81,584	13%	8,851	213,262	210,010	247,524	
2008	97,925	6,257	91,670	23%	49,537	6,924			-11%	115,836	42%	12,864	283,086	276,806	318,719	
2009	100,631	4,341	96,289	2%	53,870	9,039			31%	123,511	7%	14,029	301,080	285,595	339,317	
2010	113,452	3,830	109,622	13%	54,698	21,190	9,369	11,821	134%	111,895	-9%	3,117	304,352	285,125	337,271	
2011	123,502	4,483	119,019	9%	67,986	25,036	13,019	12,017	18%	101,650	-9%	2,336	320,510	295,214	346,988	
2012	129,255	5,291	123,964	5%	65,632	19,902	11,161	8,741	-21%	117,946	16%	3,195	335,930	288,693	356,827	
2013	134,329	4,549	129,780	4%	58,490	22,062	14,065	7,997	11%	122,888	4%	3,313	341,082	273,037	357,581	
2014	126,955	5,343	121,612	-5%	49,059	23,398	15,713	7,685	6%	123,367	0%	3,635	326,414	260,099	336,876	
2015	134,889	4,942	129,947	6%	56,775	22,141	12,548	9,593	-5%	115,560	-6%	3,769	333,134	306,989	342,869	
2016	136,646	5,104	131,542	1%	49,585	20,625	12,903	7,722	-7%	122,135	6%	5,091	334,082	307,431	339,811	
2017	152,843	6,954	145,889	12%	52,663	21,006	11,944	9,062	2%	125,869	3%	4,520	356,901	310,607	356,901	

Notes 43% 15% 6% 35% 1% 100% 87%

Major improvement to WSU internal procedures occurred for FY 2003 and 2008 (FY 2002 restated for consistency). From 2004, WSU reports state appropriations for research as state rather than institutional expenditure. From 2007, WSU reports commodity commission activity as industry rather than state expenditure.

Non-science & engineering R&D was not included by NSF until 2003; with FY2010 redesign, Total R&D reported by NSF now includes both S&E and Non-S&E. From FY 2010, NSF calls out non-profit organizations as a funding source (primarily foundations/educational institutions previously reported under "Other").

Source: NSF Division of Science Resource Statistics, *Higher Education Research and Development (HERD) Survey*, annual.

Inflation adjusted by Implicit Price Deflator (IPD), published quarterly in *Washington Economic and Revenue Forecast* (Nov 2016) [cf. www.ercf.wa.gov]

Research & Development (R&D) Expenditures for Science and Engineering (S&E) (\$'000s) NSF Survey

Fiscal Year	Sub total	Federal			State		Industry		Institution		All Other Sources	Total R&D		Non S&E R&D
		Appropriated	Grants & Contracts	% Change Federal	% Change State	% Change Industry	% Change Institution	Total R&D	% Change Total					
1992	38,213				5,129		2,459		31,051		8,228	85,080		
1993	43,678			14%	5,482	7%	2,726	11%	32,006	3%	8,542	92,434	8.6%	
1994	45,691	4,303	41,388	5%	4,239	-23%	3,151	16%	32,558	2%	9,180	94,819	2.6%	
1995	49,040	3,931	45,109	7%	3,596	-15%	2,537	-19%	32,943	1%	8,629	96,745	2.0%	
1996	48,807	4,665	44,142	0%	3,049	-15%	3,149	24%	34,042	3%	9,594	98,641	2.0%	
1997	45,030	3,953	41,077	-8%	3,495	15%	3,138	0%	36,243	6%	9,794	97,700	-1.0%	
1998	44,510	2,774	41,736	-1%	3,302	-6%	3,158	1%	34,430	-5%	10,022	95,422	-2.3%	
1999	44,610	3,284	41,326	0%	3,583	9%	3,158	0%	34,556	0%	11,036	96,943	1.6%	
2000	48,441	3,803	44,638	9%	4,284	20%	4,579	45%	36,280	5%	11,212	104,797	8.1%	
2001	48,660	3,476	45,184	0%	5,458	27%	4,438	-3%	38,470	6%	10,911	107,937	3.0%	
2002	61,138	4,078	57,060	26%	5,699	4%	3,874	-13%	67,107	74%	9,045	146,863	36.1%	
2003	70,653	3,576	67,078	16%	7,124	25%	3,666	-5%	83,208	24%	10,530	175,181	19.3%	608
2004	74,944	4,761	70,183	6%	28,850	305%	3,031	-17%	53,739	-35%	11,170	171,737	-2.0%	3,407
2005	80,222	3,711	76,511	7%	31,076	8%	3,325	10%	50,195	-7%	17,858	182,677	6.4%	2,605
2006	81,324	4,216	77,108	1%	31,768	2%	2,865	-14%	69,741	39%	10,692	196,389	7.5%	7,151
2007	78,505	4,118	74,387	-3%	34,476	9%	7,768	171%	80,457	15%	8,804	210,010	6.9%	3,252
2008	97,668	6,255	91,413	24%	48,653	41%	6,923	-11%	110,854	38%	12,708	276,806	31.8%	6,280
2009	95,823	3,885	91,938	-2%	52,125	7%	8,963	29%	115,592	4%	13,092	285,595	3.2%	15,485

Notes

Major improvement to WSU internal procedures occurred in 2002 and 2008. From 2004, WSU reports state appropriations for research as state rather than institutional expenditure. From 2007, WSU reports commodity commission expenditures as industry rather than state expenditures. Non-science and engineering R&D was not included by NSF until 2003; Total R&D as reported by NSF does not include this category. This survey superceded by Higher Education R&D survey starting FY 2010.

Source: National Science Foundation Division of Science Resource Statistics, *Survey of Research and Development Expenditures at Universities and Colleges*, annual.

Institutional Research: java