

Table 803. Federal Research and Development (R&D) Obligations to Selected Universities and Colleges: 2006 and 2007

[In millions of dollars (24,991.8 represents \$24,991,800,000). For years ending September 30. For the top 40 institutions receiving federal R&D funds in 2007. Awards to the administrative offices of university systems are excluded from totals for individual institutions because that allocation of funds is unknown, but those awards are included in "total all institutions"]

Major institution ranked by total 2007 federal R&D obligations	2006		2007		Major institution ranked by total 2007 federal R&D obligations	2006		2007	
	Total, all institutions¹	24,991.8	24,998.0				Cornell University	299.1	326.1
Johns Hopkins University	1,153.2	1,054.9			Pennsylvania State University	291.8	320.8		
University of Washington	612.1	608.0			Case Western Reserve University	277.9	278.9		
University of Michigan	516.2	501.5			University Southern California	265.5	260.3		
University of Pennsylvania	497.5	498.5			University of Rochester	252.3	252.2		
University of California—Los Angeles	477.6	480.0			Northwestern University	222.2	254.2		
Duke University	472.5	470.7			University of Chicago	219.8	248.6		
University of California—San Francisco	441.9	433.4			Emory University	228.1	247.9		
University of California—San Diego	401.2	432.7			University of California—Davis	236.4	243.1		
Harvard University	420.8	429.3			University of Alabama—Birmingham	235.4	235.1		
University of Pittsburgh	425.4	425.9			Baylor College of Medicine	236.5	227.9		
Columbia University—City of NY	467.8	425.7			University of California—Irvine	161.3	219.6		
Stanford University	455.9	424.0			Ohio State University	205.9	217.2		
Washington University	410.7	407.8			University of California—Berkeley	228.6	214.2		
Yale University	361.7	387.3			University of Arizona	200.7	212.0		
Massachusetts Institute of Technology	357.1	380.8			University of Illinois—Urbana				
University of Minnesota	331.2	370.7			Champaign	184.6	210.5		
University of Wisconsin—Madison	373.7	369.2			Boston University	204.7	208.5		
University of North Carolina at Chapel Hill	343.4	353.5			University of Iowa	193.0	208.4		
University of Colorado	340.1	330.0			The Scripps Research Institute	217.5	199.0		
Vanderbilt University	306.4	329.6			University of Virginia	176.3	198.4		

¹ Includes other institutions, not shown separately.

Source: U.S. National Science Foundation, *Federal S&E Support to Universities and Colleges and Nonprofit Institutions*, NSF 09-313, 2009. See also <<http://www.nsf.gov/statistics/fedsupport/>>.

Table 804. Graduate Science/Engineering Students in Doctorate-Granting Colleges by Characteristic and Field: 1990 to 2007

[In thousands (409.4 represents 409,400). As of fall. Includes outlying areas]

Field of science or engineering	Total			Characteristic							
				Female		Foreign		Part-time			
	1990	2000	2007	1990	2000	2007	2000	2007	1990	2000	2007
Total, all surveyed fields	409.4	443.5	561.4	155.5	201.8	272.3	123.3	151.2	130.8	123.6	151.9
Science/engineering	360.6	374.8	469.5	117.9	150.3	201.7	118.0	143.5	107.5	99.3	119.4
Engineering, total	101.0	98.8	124.4	13.8	19.7	28.6	46.3	57.2	36.7	28.2	33.5
Sciences, total ¹	259.6	275.9	345.1	104.2	130.7	173.1	71.7	86.3	70.8	71.1	85.9
Physical sciences	32.9	29.6	35.8	7.7	8.8	11.6	11.5	14.2	3.9	3.5	3.4
Environmental	13.1	13.0	13.4	3.8	5.3	6.3	2.6	2.6	3.2	2.8	2.8
Mathematical sciences	18.1	14.4	19.2	5.6	5.2	6.9	5.9	7.3	4.7	3.0	4.2
Computer sciences	29.2	40.3	43.6	6.8	11.7	10.8	19.7	20.6	14.1	16.7	15.7
Agricultural sciences	11.0	11.3	12.5	3.2	4.8	6.1	2.4	2.8	2.0	2.4	3.3
Biological sciences	46.7	53.1	67.5	21.4	27.8	38.0	11.6	16.2	7.2	7.6	9.2
Psychology	38.5	40.3	48.1	25.5	29.0	36.1	2.1	2.7	12.0	10.8	13.8
Social sciences	70.0	73.9	91.3	30.1	38.1	48.6	15.8	17.7	23.8	24.3	28.9
Health fields, total	48.8	68.8	91.8	37.6	51.5	70.5	5.4	7.7	23.3	24.3	32.5

¹ For 2007, includes other sciences, not shown separately.

Source: U.S. National Science Foundation, *Survey of Graduate Science Engineering Students and Postdoctorates*, annual. See also <<http://www.nsf.gov/statistics/gradpostdoc/>>.

Table 805. Non-U.S. Citizens Awarded Doctorates in Science and Engineering by Visa Type and Country of Citizenship: 1998 to 2007

[For description of science and engineering fields, see Table 809]

Visa and country	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
All non-U.S. citizens	9,736	8,894	9,070	9,217	8,867	9,483	10,158	11,519	12,777	13,545
Canada	286	289	294	306	316	324	380	368	362	397
Mexico	176	172	208	206	182	218	181	206	182	182
Brazil	164	164	131	142	126	108	136	156	139	122
France	76	79	83	85	92	87	92	113	124	129
Germany	210	183	229	220	197	192	185	182	176	162
China	2,503	2,234	2,379	2,407	2,402	2,503	2,878	3,482	4,279	4,395
Japan	155	158	201	149	157	201	186	211	222	235
Korea	822	760	754	865	856	958	1,057	1,179	1,220	1,137
Taiwan	910	746	676	539	469	440	394	444	431	462
Thailand	122	134	153	237	264	314	272	252	199	224
India	1,134	915	834	818	681	773	864	1,110	1,525	1,956
Iran	93	92	80	100	59	68	60	136	148	156
Turkey	172	192	275	307	345	374	344	342	357	436
Science	6,678	6,299	6,269	6,129	5,945	6,305	6,605	7,481	8,209	8,676
Engineering	3,058	2,595	2,801	3,088	2,922	3,178	3,553	4,038	4,568	4,869
Permanent visa	1,991	1,654	1,409	1,271	1,173	1,099	1,003	1,113	1,252	1,222
Temporary visa	7,745	7,240	7,661	7,946	7,694	8,384	9,155	10,406	11,525	12,323

Source: U.S. National Science Foundation, *Science and Engineering Doctorate Awards*, NSF 09-311, 2009. See also <<http://www.nsf.gov/statistics/nsf09311/>>.