

Table 809. 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 institutions ¹	24,991.8	24,998.0	24,991.8		24,998.0	Cornell University	299.1	326.1
Johns Hopkins University	1,153.2	1,054.9	1,153.2	1,054.9	Pennsylvania State University	291.8	320.8	291.8	320.8
University of Washington	612.1	608.0	612.1	608.0	Case Western Reserve University	277.9	278.9	277.9	278.9
University of Michigan	516.2	501.5	516.2	501.5	University Southern California	265.5	260.3	265.5	260.3
University of Pennsylvania	497.5	498.5	497.5	498.5	University of Rochester	252.3	255.2	252.3	255.2
University of California—Los Angeles	477.6	480.0	477.6	480.0	Northwestern University	222.2	254.2	222.2	254.2
Duke University	472.5	470.7	472.5	470.7	University of Chicago	219.8	248.6	219.8	248.6
University of California—San Francisco	441.9	433.4	441.9	433.4	Emory University	228.1	247.9	228.1	247.9
University of California—San Diego	401.2	432.7	401.2	432.7	University of California—Davis	236.4	243.1	236.4	243.1
Harvard University	420.8	429.3	420.8	429.3	University of Alabama—Birmingham	235.4	235.1	235.4	235.1
University of Pittsburgh	425.4	425.9	425.4	425.9	Baylor College of Medicine	236.5	227.9	236.5	227.9
Columbia University—City of NY	467.8	425.7	467.8	425.7	University of California—Irvine	161.3	219.6	161.3	219.6
Stanford University	455.9	424.0	455.9	424.0	Ohio State University	205.9	217.2	205.9	217.2
Washington University	410.7	407.8	410.7	407.8	University of California—Berkeley	228.6	214.2	228.6	214.2
Yale University	361.7	387.3	361.7	387.3	University of Arizona	200.7	212.0	200.7	212.0
Massachusetts Institute of Technology	357.1	380.8	357.1	380.8	University of Illinois—Urbana				
University of Minnesota	331.2	370.7	331.2	370.7	Champaign	184.6	210.5	184.6	210.5
University of Wisconsin—Madison	373.7	369.2	373.7	369.2	Boston University	204.7	208.5	204.7	208.5
University of North Carolina at Chapel Hill	343.4	353.5	343.4	353.5	University of Iowa	193.0	208.4	193.0	208.4
University of Colorado	340.1	330.0	340.1	330.0	The Scripps Research Institute	217.5	199.0	217.5	199.0
Vanderbilt University	306.4	329.6	306.4	329.6	University of Virginia	176.3	198.4	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 810. Graduate Science/Engineering Students in Doctorate-Granting Colleges by Characteristic and Field: 1990 to 2009

[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	2009	1990	2000	2009	1990	2000	2009	1990	2000	2009
Total, all surveyed fields	409.4	443.5	573.9	155.5	201.8	269.7	103.0	123.3	163.3	130.8	123.6	145.0
Science/engineering	360.6	374.8	497.2	117.9	150.3	212.1	98.9	118.0	155.1	107.5	99.3	120.7
Engineering, total	101.0	98.8	136.7	13.8	19.7	31.8	36.9	46.3	62.8	36.7	28.2	35.2
Sciences, total ¹	259.6	275.9	360.5	104.2	130.7	180.3	62.0	71.7	92.3	70.8	71.1	85.4
Physical sciences	32.9	29.6	37.1	7.7	8.8	12.2	12.2	11.5	14.8	3.9	3.5	3.4
Environmental	13.1	13.0	13.9	3.8	5.3	6.4	2.6	2.6	2.7	3.2	2.8	2.7
Mathematical sciences	18.1	14.4	20.5	5.6	5.2	7.2	6.4	5.9	8.2	4.7	3.0	4.2
Computer sciences	29.2	40.3	45.6	6.8	11.7	11.4	9.7	19.7	22.1	14.1	16.7	15.9
Agricultural sciences	11.0	11.3	14.1	3.2	4.8	6.9	3.2	2.4	3.2	2.0	2.4	3.9
Biological sciences	46.7	53.1	68.6	21.4	27.8	38.9	11.2	11.6	16.8	7.2	7.6	9.3
Psychology	38.5	40.3	46.6	25.5	29.0	34.9	1.7	2.1	2.7	12.0	10.8	12.0
Social sciences	70.0	79.9	95.2	30.1	38.1	50.5	15.0	15.8	18.7	23.8	24.3	28.1
Health fields, total	48.8	68.8	76.7	37.6	51.5	57.6	4.1	5.4	8.2	23.3	24.3	24.4

¹ For 2009, 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 811. Non-U.S. Citizens Awarded Doctorates in Science and Engineering by Visa Type and Country of Citizenship: 2000 to 2009

[For description of science and engineering fields, see Table 815]

Visa and country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
All non-U.S. citizens	7,664	7,953	7,707	8,393	9,164	10,427	11,587	12,371	12,628	12,217
Canada	243	253	251	280	337	312	315	341	355	371
Mexico	190	186	175	198	164	193	169	166	160	170
Brazil	121	130	113	99	124	140	128	111	123	121
United Kingdom	64	86	86	77	73	68	77	82	84	78
France	64	62	81	68	82	98	106	120	120	112
Germany	169	181	164	154	153	145	128	126	137	165
China	2,034	2,146	2,121	2,263	2,718	3,281	4,056	4,215	4,072	3,680
Japan	166	128	141	170	166	183	187	201	196	188
Korea	695	814	807	915	1,003	1,118	1,167	1,089	1,111	1,156
Taiwan	611	492	428	407	359	401	403	432	415	511
Thailand	149	231	258	307	263	248	194	218	273	193
India	726	717	601	688	788	1,033	1,415	1,842	2,061	2,029
Iran	40	71	35	45	45	112	124	127	129	137
Turkey	248	274	320	348	319	321	321	410	466	444
Science	5,213	5,164	5,057	5,475	5,852	6,665	7,289	7,773	8,139	8,006
Engineering	2,451	2,789	2,650	2,918	3,312	3,762	4,298	4,598	4,489	4,211
Permanent visa	1,409	1,271	1,173	1,099	1,003	1,113	1,252	1,222	(NA)	(NA)
Temporary visa	7,661	7,946	7,694	8,384	9,155	10,406	11,525	12,323	(NA)	(NA)

NA Not available.

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