

Schools of Engineering

THE TOP SCHOOLS

Rank	School	Overall score	Peer assessment score (5.0=highest)	Recruiter assessment score (5.0=highest)	'11 average quantitative GRE score	'11 acceptance rate	'11 Ph.D. students/faculty	'11 faculty membership in National Academy of Engineering	'11 engineering school research expenditures (in millions)	'11 research expenditures per faculty member (in thousands)	Ph.D.s granted 2010-2011	'11 total graduate enrollment
1.	Massachusetts Institute of Technology	100	4.9	4.8	783	17.5%	4.7	13.2%	\$332.5	\$901.0	304	2,818
2.	Stanford University (CA)	98	4.9	4.6	785	22.2%	8.1	17.6%	\$197.4	\$909.7	271	3,564
3.	University of California—Berkeley	89	4.8	4.5	782	14.4%	6.0	16.7%	\$186.9	\$759.7	229	1,882
4.	Georgia Institute of Technology	81	4.5	4.4	771	27.8%	4.4	4.2%	\$241.8	\$485.6	327	4,624
5.	California Institute of Technology	79	4.7	4.5	800	9.0%	6.1	14.3%	\$84.5	\$918.1	72	577
5.	University of Illinois—Urbana-Champaign	79	4.6	4.4	774	25.9%	4.4	4.3%	\$220.5	\$571.1	275	2,773
7.	Carnegie Mellon University (PA)	78	4.3	4.2	777	26.8%	4.8	11.2%	\$185.0	\$811.4	180	2,517
8.	University of Michigan—Ann Arbor	74	4.5	4.2	778	29.2%	4.2	3.9%	\$188.5	\$534.1	212	3,233
8.	University of Texas—Austin (Cockrell)	74	4.2	4.1	774	18.3%	5.0	7.6%	\$192.6	\$650.5	213	2,428
10.	Cornell University (NY)	73	4.4	4.2	774	26.9%	4.6	11.6%	\$134.6	\$679.6	134	1,705
10.	Purdue University—West Lafayette (IN)	73	4.2	4.1	763	27.9%	4.7	4.7%	\$219.7	\$587.5	241	2,965
12.	Texas A&M University—College Station (Look)	72	3.8	3.9	758	26.1%	3.6	2.6%	\$274.3	\$779.2	199	2,870
12.	University of Southern California (Viterbi)	72	3.7	3.6	765	30.7%	5.4	10.3%	\$168.4	\$990.8	133	4,251
14.	University of California—San Diego (Jacobs)	69	3.9	3.8	775	23.1%	5.2	11.0%	\$146.4	\$804.5	135	1,493
15.	Columbia University (Fu Foundation) (NY)	68	3.8	3.7	787	25.2%	4.4	13.4%	\$125.4	\$858.6	121	2,272
16.	University of California—Los Angeles (Samueli)	67	3.8	3.8	771	30.7%	6.0	14.9%	\$100.5	\$648.3	134	1,845
17.	University of Wisconsin—Madison	66	4.0	4.0	780	14.0%	4.4	3.5%	\$148.8	\$658.6	141	1,751
18.	University of Maryland—College Park (Clark)	63	3.7	3.6	767	27.3%	4.3	3.0%	\$179.4	\$776.6	157	2,259
19.	Harvard University (MA)	62	3.7	3.8	787	7.0%	4.7	18.2%	\$49.6	\$775.3	46	385
19.	Northwestern University (McCormick) (IL)	62	4.0	3.9	772	22.0%	4.5	3.9%	\$107.7	\$622.4	110	1,531
21.	Princeton University (NJ)	61	4.2	3.9	N/A	10.6%	4.0	15.9%	\$71.8	\$578.7	91	564
21.	University of California—Santa Barbara	61	3.6	3.7	775	23.4%	4.4	12.8%	\$102.6	\$783.2	77	753
23.	University of Pennsylvania	60	3.6	3.6	779	31.5%	3.9	8.3%	\$102.3	\$955.7	63	1,665
24.	Virginia Tech	59	3.8	3.9	755	20.3%	3.5	3.9%	\$152.7	\$471.2	154	2,336
25.	Pennsylvania State University—University Park	57	3.9	3.8	763	26.7%	3.0	0.8%	\$137.7	\$416.1	198	1,953
26.	Johns Hopkins University (Whiting) (MD)	56	4.0	3.9	773	28.3%	4.8	1.4%	\$72.1	\$497.5	72	3,293
26.	University of Washington	56	3.7	3.6	760	22.9%	3.6	7.0%	\$113.0	\$518.4	110	1,787
28.	Duke University (Pratt) (NC)	55	3.7	3.7	774	23.0%	4.0	2.5%	\$90.1	\$577.0	63	907
28.	University of Minnesota—Twin Cities	55	3.6	3.7	772	32.4%	4.0	3.8%	\$104.0	\$504.9	153	1,945
30.	Ohio State University	54	3.6	3.6	764	30.7%	3.8	2.4%	\$126.9	\$528.7	120	1,748
31.	North Carolina State University	52	3.4	3.5	755	20.3%	2.6	3.1%	\$148.4	\$486.6	142	2,899
31.	Rice University (Brown) (TX)	52	3.7	3.7	774	16.5%	4.6	6.1%	\$50.0	\$458.8	80	651
31.	University of California—Davis	52	3.4	3.6	758	24.4%	4.4	6.7%	\$79.5	\$422.7	117	1,252
34.	Yale University (CT)	50	3.5	3.5	800	14.6%	3.8	12.0%	\$25.9	\$497.7	23	216
35.	University of Colorado—Boulder	49	3.3	3.5	757	48.4%	4.4	4.6%	\$78.1	\$497.8	92	1,550
35.	University of Florida	49	3.4	3.3	760	41.6%	4.1	0.4%	\$66.3	\$253.0	234	2,905
35.	Vanderbilt University (TN)	49	3.3	3.5	771	15.6%	4.6	2.4%	\$62.8	\$738.5	56	450
38.	Boston University	48	3.1	3.3	763	25.3%	3.8	6.0%	\$74.8	\$633.6	78	798
39.	University of California—Irvine (Samueli)	47	3.2	3.4	766	23.4%	4.0	3.3%	\$83.0	\$471.5	95	1,200
39.	University of Virginia	47	3.3	3.4	761	16.9%	3.8	4.6%	\$62.1	\$478.0	90	685
41.	University of Rochester (NY)	46	2.9	3.2	762	30.4%	3.6	3.4%	\$86.2	\$968.2	50	476
42.	Rensselaer Polytechnic Institute (NY)	45	3.4	3.8	752	25.8%	3.5	2.0%	\$50.9	\$330.5	77	818
43.	Arizona State University (Fulton)	43	3.2	3.3	758	59.7%	3.2	2.0%	\$76.1	\$380.5	120	2,445
43.	Iowa State University	43	3.2	3.5	756	16.4%	2.4	1.9%	\$78.4	\$366.2	88	997
43.	Lehigh University (Rossin) (PA)	43	3.1	3.4	766	23.1%	5.4	9.5%	\$22.9	\$216.0	42	727
46.	Brown University (RI)	42	3.4	3.4	780	21.1%	2.7	4.5%	\$22.0	\$338.1	40	291
47.	Case Western Reserve University (OH)	41	3.3	3.4	743	23.4%	3.5	1.9%	\$38.7	\$368.3	78	606
47.	University of Pittsburgh (Swanson)	41	3.1	3.2	734	33.5%	3.1	0.7%	\$80.8	\$612.1	67	942
49.	Michigan State University	40	3.1	3.4	745	9.9%	3.2	1.8%	\$50.5	\$305.8	72	812
49.	Rutgers, the State Univ. of N.J.—New Brunswick	40	3.1	3.2	756	19.7%	2.0	5.1%	\$55.5	\$334.3	79	931
49.	University of Arizona	40	3.1	3.2	756	29.5%	3.3	3.5%	\$57.5	\$326.7	74	957
49.	University of Notre Dame (IN)	40	3.1	3.4	765	18.3%	3.9	1.7%	\$41.3	\$392.9	55	471
49.	Washington University in St. Louis	40	3.2	3.5	772	36.0%	4.1	2.6%	\$23.2	\$301.5	35	701
54.	University at Buffalo—SUNY	39	2.8	3.2	758	21.0%	3.1	2.1%	\$55.7	\$412.5	66	1,238
54.	University of Utah	39	2.8	3.0	752	35.1%	3.0	4.7%	\$74.7	\$469.9	74	1,035

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56.	Stony Brook University–SUNY	38	2.9	3.2	770	39.7%	4.2	2.4%	\$28.6	\$228.8	68	1,292
56.	University of Delaware	38	3.0	3.0	748	29.9%	4.2	2.2%	\$51.8	\$386.3	66	823
56.	University of Iowa	38	2.8	3.3	738	27.9%	3.2	1.2%	\$50.1	\$603.6	38	446
56.	University of Massachusetts–Amherst	38	2.9	3.4	754	28.7%	3.4	0.7%	\$53.5	\$359.4	54	825
60.	Dartmouth College (Thayer) (NH)	37	3.0	3.4	763	24.1%	2.5	2.1%	\$18.6	\$413.7	26	267
60.	University of Dayton (OH)	37	2.1	2.6	724	54.3%	1.8	N/A	\$87.4	\$1,648.2	7	643
62.	Northeastern University (MA)	36	2.8	3.3	753	46.7%	3.3	1.4%	\$31.4	\$227.3	53	1,893
63.	Colorado School of Mines	35	2.8	3.6	718	46.8%	2.9	1.8%	\$48.4	\$282.9	48	1,343
64.	University of California–Riverside (Bourns)	34	2.6	2.8	753	24.2%	4.7	2.4%	\$35.7	\$424.5	54	520
64.	University of Connecticut	34	2.7	3.0	756	27.2%	3.3	1.6%	\$41.7	\$334.0	61	745
64.	University of Illinois–Chicago	34	2.8	3.3	740	31.3%	3.7	1.0%	\$29.1	\$280.0	59	985
67.	Auburn University (Ginn) (AL)	33	2.8	3.2	737	55.4%	1.5	1.4%	\$57.4	\$401.5	57	834
67.	Colorado State University	33	2.6	3.1	727	39.8%	1.7	1.0%	\$62.4	\$593.8	56	642
67.	Drexel University (PA)	33	2.8	3.1	730	42.1%	3.2	2.2%	\$39.0	\$276.4	65	1,079
67.	Polytechnic Institute of New York University (NY)	33	2.6	3.3	752	43.0%	1.4	1.9%	\$11.8	\$203.7	23	1,807
67.	University of Tennessee–Knoxville	33	2.7	3.0	759	19.5%	2.7	0.6%	\$57.0	\$372.4	44	916
72.	Illinois Institute of Technology (Armour)	32	2.7	3.2	739	59.8%	3.0	2.2%	\$26.8	\$265.1	46	1,523
72.	University of Central Florida	32	2.5	2.7	712	45.1%	3.4	0.8%	\$75.1	\$630.9	65	1,309
74.	Stevens Institute of Technology (Schaefer) (NJ)	31	2.5	3.2	742	73.8%	2.7	1.3%	\$25.7	\$367.2	35	1,720
74.	Syracuse University (NY)	31	2.7	3.0	758	35.7%	2.8	1.5%	\$12.4	\$191.3	26	920
74.	Tufts University (MA)	31	2.8	3.2	742	44.0%	2.3	2.8%	\$18.1	\$262.9	25	628
77.	Clemson University (SC)	30	2.8	3.0	740	41.4%	2.6	N/A	\$28.6	\$144.5	88	1,246
77.	University of Houston (Cullen) (TX)	30	2.6	2.8	753	55.7%	2.8	4.6%	\$28.5	\$234.0	71	1,001
77.	University of Texas–Dallas (Jonsson)	30	2.4	2.8	747	47.8%	2.6	2.5%	\$47.4	\$423.5	58	1,518
80.	University of Cincinnati	29	2.6	3.0	744	28.6%	2.8	N/A	\$26.6	\$197.3	49	962
80.	University of Missouri	29	2.6	3.0	732	35.6%	2.3	N/A	\$33.4	\$295.8	52	585
82.	Mississippi State University (Bagley)	28	2.4	2.7	730	24.6%	2.1	N/A	\$52.4	\$498.8	44	608
82.	Missouri University of Science & Technology	28	2.7	3.2	727	54.6%	1.9	0.6%	\$33.5	\$200.8	40	1,103
82.	Oregon State University	28	2.6	2.9	732	28.4%	2.4	N/A	\$31.5	\$269.1	39	808
82.	University of North Carolina–Chapel Hill	28	2.8	3.3	710	42.0%	2.3	N/A	\$10.9	\$303.0	10	146
82.	Washington State University	28	2.7	2.8	733	18.0%	3.3	1.1%	\$19.6	\$198.3	32	680
87.	University of California–Santa Cruz (Baskin)	27	2.4	2.7	745	29.3%	3.1	1.3%	\$31.1	\$393.6	34	364
88.	Michigan Technological University	26	2.5	3.1	734	44.7%	1.8	N/A	\$27.9	\$190.8	35	803
88.	Rochester Institute of Technology (Gleason) (NY)	26	2.7	3.4	N/A	56.8%	0.3	N/A	\$28.0	\$243.8	9	634
88.	University of Alabama–Huntsville	26	2.3	3.0	696	58.5%	1.2	1.3%	\$51.0	\$698.1	22	769
88.	University of New Mexico	26	2.5	2.7	706	55.0%	3.8	1.0%	\$31.2	\$335.7	33	687
88.	University of Texas–Arlington	26	2.5	2.8	727	66.2%	2.0	N/A	\$37.5	\$277.6	53	1,554
93.	George Washington University (DC)	25	2.5	3.0	740	38.3%	1.4	N/A	\$13.0	\$164.2	51	1,334
93.	Kansas State University	25	2.6	3.0	739	26.3%	1.1	N/A	\$22.3	\$187.5	15	520
93.	Louisiana State University–Baton Rouge	25	2.5	2.9	737	43.0%	2.7	N/A	\$19.8	\$149.9	38	639
93.	New Jersey Institute of Technology	25	2.5	2.8	708	68.4%	1.6	0.8%	\$45.4	\$302.6	34	2,034
93.	Texas Tech University (Whitacre)	25	2.5	2.9	734	36.9%	2.0	N/A	\$26.5	\$213.9	44	752
93.	University of Nebraska–Lincoln	25	2.5	2.8	723	33.7%	2.0	N/A	\$38.9	\$227.3	40	659
93.	University of South Carolina	25	2.5	2.7	746	39.1%	2.4	0.9%	\$28.1	\$275.7	29	535
93.	Worcester Polytechnic Institute (MA)	25	2.6	3.2	757	58.0%	1.1	0.9%	\$13.8	\$127.6	18	992

THE SPECIALTIES

PROGRAMS RANKED BEST BY ENGINEERING SCHOOL DEPARTMENT HEADS

Rank	School	Average assessment score (5.0=highest)	Rank	School	Average assessment score (5.0=highest)	Rank	School	Average assessment score (5.0=highest)
AEROSPACE/AERONAUTICAL/ASTRONAUTICAL			BIOLOGICAL/AGRICULTURAL					
1.	Stanford University (CA)	4.8	5.	University of Michigan–Ann Arbor	4.3	1.	Purdue University–West Lafayette (IN)	4.7
2.	California Institute of Technology	4.6	6.	Purdue University–West Lafayette (IN)	4.2	2.	University of Illinois–Urbana-Champaign	4.4
2.	Massachusetts Institute of Technology	4.6	7.	University of Illinois–Urbana-Champaign	3.9	3.	Cornell University (NY)	4.1
4.	Georgia Institute of Technology	4.4	8.	Princeton University (NJ)	3.8	3.	University of Florida	4.1
			8.	University of Maryland–College Park (Clark)	3.8	5.	Iowa State University	4.0
			8.	University of Texas–Austin (Cockrell)	3.8			

N/A=Data were not provided by the school.

Sources: U.S. News, the schools. Assessment data collected by Ipsos Public Affairs.

THE SPECIALTIES

Rank	School	Average assessment score (5.0=highest)	Rank	School	Average assessment score (5.0=highest)	Rank	School	Average assessment score (5.0=highest)
5.	Texas A&M University—College Station (Look)	4.0	COMPUTER			6.	Stanford University (CA)	4.0
7.	University of California—Davis	3.8	1.	Massachusetts Institute of Technology	4.9	7.	University of Wisconsin—Madison	3.8
7.	Virginia Tech	3.8	1.	Stanford University (CA)	4.9	8.	North Carolina State University	3.7
BIOMEDICAL/BIOENGINEERING			3.	University of California—Berkeley	4.8	8.	Pennsylvania State University—University Park	3.7
1.	Johns Hopkins University (Whiting) (MD)	4.7	4.	Carnegie Mellon University (PA)	4.7	MATERIALS		
2.	Georgia Institute of Technology	4.6	5.	University of Illinois—Urbana-Champaign	4.6	1.	Massachusetts Institute of Technology	4.8
3.	Duke University (Pratt) (NC)	4.5	6.	Georgia Institute of Technology	4.4	2.	Northwestern University (McCormick) (IL)	4.7
4.	University of California—San Diego (Jacobs)	4.4	7.	California Institute of Technology	4.3	2.	University of California—Santa Barbara	4.7
5.	Massachusetts Institute of Technology	4.2	7.	University of Michigan—Ann Arbor	4.3	4.	University of Illinois—Urbana-Champaign	4.6
5.	Stanford University (CA)	4.2	ELECTRICAL/ELECTRONIC/COMMUNICATIONS			5.	Stanford University (CA)	4.4
7.	Rice University (Brown) (TX)	4.0	1.	Massachusetts Institute of Technology	4.9	6.	University of California—Berkeley	4.3
7.	University of Michigan—Ann Arbor	4.0	1.	Stanford University (CA)	4.9	7.	Georgia Institute of Technology	4.2
7.	University of Washington	4.0	3.	University of California—Berkeley	4.8	8.	California Institute of Technology	4.1
CHEMICAL			3.	University of Illinois—Urbana-Champaign	4.8	8.	University of Michigan—Ann Arbor	4.1
1.	Massachusetts Institute of Technology	5.0	5.	Georgia Institute of Technology	4.6	MECHANICAL		
2.	California Institute of Technology	4.8	6.	California Institute of Technology	4.5	1.	Stanford University (CA)	4.9
2.	University of California—Berkeley	4.8	7.	Carnegie Mellon University (PA)	4.4	2.	Massachusetts Institute of Technology	4.8
4.	University of Minnesota—Twin Cities	4.7	7.	University of Michigan—Ann Arbor	4.4	3.	California Institute of Technology	4.6
5.	Stanford University (CA)	4.6	ENVIRONMENTAL/ENVIRONMENTAL HEALTH			3.	University of California—Berkeley	4.6
5.	University of Texas—Austin (Cockrell)	4.6	1.	Stanford University (CA)	4.7	5.	University of Michigan—Ann Arbor	4.5
7.	University of Wisconsin—Madison	4.5	1.	University of California—Berkeley	4.7	6.	Georgia Institute of Technology	4.4
8.	University of California—Santa Barbara	4.4	3.	University of Illinois—Urbana-Champaign	4.5	7.	University of Illinois—Urbana-Champaign	4.3
CIVIL			4.	University of Texas—Austin (Cockrell)	4.2	8.	Princeton University (NJ)	4.2
1.	University of California—Berkeley	4.6	5.	University of Michigan—Ann Arbor	4.1	NUCLEAR		
1.	University of Illinois—Urbana-Champaign	4.6	6.	Georgia Institute of Technology	4.0	1.	University of Michigan—Ann Arbor	4.8
3.	Georgia Institute of Technology	4.4	7.	Carnegie Mellon University (PA)	3.9	2.	Massachusetts Institute of Technology	4.4
3.	Stanford University (CA)	4.4	7.	Virginia Tech	3.9	2.	University of Wisconsin—Madison	4.4
5.	University of Texas—Austin (Cockrell)	4.3	INDUSTRIAL/MANUFACTURING			4.	Texas A&M University—College Station (Look)	4.1
6.	Massachusetts Institute of Technology	4.2	1.	Georgia Institute of Technology	4.8	5.	Georgia Institute of Technology	3.9
6.	Purdue University—West Lafayette (IN)	4.2	2.	University of Michigan—Ann Arbor	4.4	6.	North Carolina State University	3.8
8.	Cornell University (NY)	3.9	3.	Northwestern University (McCormick) (IL)	4.1	7.	University of California—Berkeley	3.7
8.	University of Michigan—Ann Arbor	3.9	3.	University of California—Berkeley	4.1	8.	Pennsylvania State University—University Park	3.6
8.	Virginia Tech	3.9	3.	Virginia Tech	4.1	9.	University of Tennessee—Knoxville	3.4
						10.	University of Illinois—Urbana-Champaign	3.2

METHODOLOGY

Programs at the 198 engineering schools that grant doctoral degrees were surveyed; 194 responded; 194 were eligible to be included in the rankings based on a weighted average of the 10 indicators described below. (All schools are listed in the directory at the back of this book.)

Quality assessment: Two separate surveys were conducted in fall 2011. In one, engineering school deans and deans of graduate studies at engineering schools were asked to rate program quality from marginal (1) to outstanding (5); 54 percent responded. The resulting score is weighted by .25 in the overall

score. Corporate recruiters and company contacts who hire engineers with graduate degrees from previously ranked engineering schools were also asked to rate programs; 17 percent responded. The two most recent years' results were averaged and are weighted by .15.

Student selectivity (weighted by .10): The strength of master's and Ph.D. students entering in fall 2011 was measured by mean GRE quantitative score (67.5 percent of this measure) and acceptance rate (32.5 percent).

Faculty resources (.25): This score is based on the 2011 ratio of full-time doctoral students to

full-time faculty (30 percent) and full-time master's students to full-time faculty (15 percent); the proportion of full-time faculty who were members of the National Academy of Engineering in 2011 (30 percent); and the number of engineering doctoral degrees granted in the past school year (25 percent).

Research activity (.25): Based on total externally funded engineering research expenditures (60 percent) and research dollars per full-time tenured and tenure-track engineering faculty member (40 percent). Expenditures refer to separately funded research, public and private, conducted by the school, aver-

aged over fiscal years 2010 and 2011.

Overall rank: Data were standardized about their means, and standardized scores were weighted, totaled, and rescaled so the top-scoring school received 100; others received their percentage of the top score.

Specialty rankings: The rankings in engineering disciplines are based solely on assessments by department heads in each specialty, who rated other schools on a 5-point scale. The top-rated schools in each specialty (by average score) appear here. Names of department heads surveyed are from the American Society for Engineering Education.