

SCHOOLS OF ENGINEERING

THE TOP SCHOOLS

Rank/School	Overall score	Peer assessment score (5.0 highest)	Recruiter assessment score (5.0 highest)	'01 average quantitative GRE score	'01 average analytical GRE score	'01 acceptance rate	'01 Ph.D. students/faculty	'01 faculty membership in National Academy of Engineering	'01 engineering school research expenditures (in millions)	'01 research expenditures per faculty member (in thousands)	Ph.D.'s granted 2000-01
1. Massachusetts Institute of Technology	100	4.9	4.7	767	697	29.4%	3.7	13.9%	\$189.7	\$556.3	243
2. Stanford University (CA)	91	4.9	4.6	770	710	35.5%	4.3	14.7%	\$88.4	\$559.5	195
University of California–Berkeley	91	4.8	4.5	761	719	24.3%	4.9	20.6%	\$118.6	\$541.7	179
4. Georgia Institute of Technology	83	4.5	4.2	760	696	40.9%	3.4	4.6%	\$187.6	\$434.3	194
5. University of Illinois–Urbana-Champaign	81	4.6	4.4	771	722	16.7%	3.4	3.7%	\$140.3	\$389.7	217
6. University of Michigan–Ann Arbor	80	4.6	4.1	768	709	33.6%	3.4	2.9%	\$135.0	\$600.2	184
7. California Institute of Technology	79	4.8	4.5	776	717	14.8%	4.7	17.0%	\$46.0	\$523.1	80
8. Cornell University (NY)	74	4.3	4.2	771	726	27.0%	3.8	7.0%	\$88.3	\$689.5	104
University of Southern California	74	3.6	3.7	756	659	40.0%	4.8	11.3%	\$107.5	\$903.1	81
10. Carnegie Mellon University (PA)	73	4.3	4.2	770	730	21.1%	3.5	8.8%	\$86.2	\$495.4	97
University of Texas–Austin	73	4.3	4.0	763	698	26.6%	3.1	9.7%	\$97.8	\$537.6	140
12. Purdue University–West Lafayette (IN)	70	4.3	4.3	760	692	33.2%	2.7	2.7%	\$103.3	\$461.2	150
Texas A&M University–College Station	70	3.9	3.8	747	646	35.5%	2.9	3.9%	\$139.9	\$692.4	125
14. University of California–San Diego	69	3.7	3.7	766	708	22.1%	3.8	11.4%	\$112.5	\$846.1	53
15. Penn State University–University Park	66	3.9	3.9	754	698	41.2%	2.0	2.1%	\$117.5	\$354.9	137
University of Wisconsin–Madison	66	4.1	3.9	771	736	31.1%	2.8	5.1%	\$98.2	\$471.9	99
17. Harvard University (MA)	65	3.7	4.2	771	722	14.3%	3.6	16.3%	\$24.4	\$737.9	23
18. Princeton University (NJ)	64	4.2	4.0	778	743	17.5%	3.8	11.6%	\$45.0	\$405.4	53
19. University of Maryland–College Park	62	3.7	3.7	766	700	23.4%	3.6	3.0%	\$103.9	\$535.8	120
20. Northwestern University (IL)	60	4.0	3.8	762	730	28.9%	3.4	7.0%	\$49.0	\$415.4	106
21. University of California–Los Angeles	58	3.8	3.8	780	680	36.8%	4.7	2.2%	\$50.7	\$378.2	100
University of Minnesota–Twin Cities	58	3.8	4.0	750	696	39.1%	2.7	4.6%	\$55.9	\$274.0	118
23. Virginia Tech	57	3.8	3.9	746	673	35.8%	1.3	2.3%	\$98.3	\$555.2	103
24. Johns Hopkins University (MD)	55	4.0	3.9	764	712	17.9%	3.4	0.8%	\$47.8	\$408.8	54
University of California–Santa Barbara	55	3.4	3.5	769	717	15.8%	4.1	12.7%	\$39.4	\$339.5	64
26. Columbia University (Fu Foundation) (NY)	53	3.6	3.6	759	700	31.0%	2.9	7.3%	\$44.7	\$480.6	53
Ohio State University	53	3.6	3.7	757	697	16.9%	2.5	1.6%	\$78.9	\$350.7	99
28. University of Pennsylvania	52	3.5	3.8	753	699	32.3%	3.0	7.8%	\$42.1	\$501.2	41
29. North Carolina State University	51	3.5	3.5	758	686	31.3%	2.5	4.0%	\$69.9	\$364.2	87
University of Florida	51	3.5	3.7	746	635	13.3%	3.1	1.1%	\$70.0	\$370.6	95
31. Rensselaer Polytechnic Institute (NY)	50	3.7	3.8	740	669	33.3%	3.1	4.5%	\$30.2	\$293.0	67
32. Rice University (TX)	49	3.7	3.7	780	720	15.8%	3.5	5.1%	\$22.0	\$271.2	33
University of Washington	49	3.7	3.7	755	689	36.0%	2.6	3.2%	\$53.6	\$273.6	81
34. Duke University (NC)	46	3.5	3.7	730	711	19.8%	3.3	2.2%	\$28.2	\$375.7	45
35. University of Colorado–Boulder	45	3.5	3.3	752	683	35.1%	1.9	4.2%	\$46.3	\$306.6	82
University of Virginia	45	3.3	3.4	757	696	24.2%	2.8	4.0%	\$40.8	\$384.7	55
Washington University in St. Louis	45	3.2	3.5	770	720	31.2%	2.6	3.7%	\$30.5	\$442.2	30
38. Iowa State University	44	3.3	3.7	774	704	19.7%	1.4	0.0%	\$47.6	\$294.1	52
39. University of California–Davis	42	3.5	3.3	751	689	39.6%	2.4	4.5%	\$36.4	\$220.5	71
Yale University (CT)	42	3.4	3.8	736	709	13.4%	2.4	4.7%	\$15.5	\$293.2	18
41. Michigan State University	40	3.4	3.4	771	713	23.6%	1.9	0.0%	\$27.5	\$219.8	51
Rutgers State University–New Brunswick (NJ)	40	3.1	3.3	745	661	23.3%	1.4	3.2%	\$66.1	\$375.6	63
University of Delaware	40	3.1	3.5	756	690	26.9%	3.6	2.3%	\$24.8	\$281.9	43
44. Case Western Reserve University (OH)	39	3.3	3.4	711	712	26.2%	1.9	4.6%	\$26.6	\$282.5	51
University of Arizona	39	3.3	3.5	738	657	50.5%	2.2	5.7%	\$25.0	\$171.6	49
46. Dartmouth College (Thayer) (NH)	38	3.2	3.3	767	704	20.7%	2.3	2.6%	\$17.3	\$454.5	8
University of Massachusetts–Amherst	38	3.1	3.4	753	701	16.7%	3.3	0.7%	\$29.3	\$242.2	47
University of New Mexico	38	2.7	3.2	740	656	39.9%	2.3	1.0%	\$41.6	\$519.7	25
Vanderbilt University (TN)	38	3.2	3.5	757	697	36.9%	2.2	1.3%	\$19.7	\$323.3	20
50. Lehigh University (PA)	37	3.1	3.3	762	662	27.5%	2.1	5.3%	\$20.7	\$299.8	43

Sources: U.S. News, the schools. Assessment data collected by T. E. Systems Inc.

SPECIALTIES

Graduate programs rated best by engineering school deans

AEROSPACE/AERONAUTICAL/ ASTRONAUTICAL

1. Massachusetts Inst. of Tech.
2. Stanford University (CA)
3. Calif. Institute of Technology
Georgia Inst. of Technology
Univ. of Michigan–Ann Arbor
6. Purdue U.–West Lafayette (IN)
7. University of Texas–Austin
8. Princeton University (NJ)
University of Illinois–
Urbana-Champaign
10. Cornell University (NY)

BIOENGINEERING/ BIOMEDICAL

1. Johns Hopkins Univ. (MD)
2. Massachusetts Inst. of Tech.
3. Univ. of Calif.–San Diego
4. Duke University (NC)
5. University of Washington
6. Georgia Inst. of Technology
7. Case Western Reserve U. (OH)
8. University of Pennsylvania
9. Univ. of Michigan–Ann Arbor
10. University of California–
Berkeley

CHEMICAL

1. Massachusetts Inst. of Tech.
2. University of Minnesota–
Twin Cities
3. University of California–
Berkeley
4. California Inst. of Technology
5. Univ. of Wisconsin–Madison
6. Stanford University (CA)
7. University of Texas–Austin
8. University of Delaware
9. University of Illinois–
Urbana-Champaign
10. Princeton University (NJ)

CIVIL

1. University of California–
Berkeley
2. University of Illinois–
Urbana-Champaign
3. Massachusetts Inst. of Tech.
4. University of Texas–Austin
5. Georgia Inst. of Technology
6. Univ. of Michigan–Ann Arbor
7. Purdue University–
West Lafayette (IN)
8. Stanford University (CA)
9. Cornell University (NY)
10. Northwestern University (IL)

COMPUTER

1. Massachusetts Inst. of Tech.
2. Stanford University (CA)
3. Univ. of California–Berkeley
4. Carnegie Mellon Univ. (PA)
5. University of Illinois–
Urbana-Champaign
6. Univ. of Michigan–Ann Arbor
7. University of Texas–Austin
8. University of Washington
9. Princeton University (NJ)
10. Cornell University (NY)

ELECTRICAL/ELECTRONIC/ COMMUNICATIONS

1. Massachusetts Inst. of Tech.
2. Univ. of California–Berkeley
3. Stanford University (CA)
University of Illinois–
Urbana-Champaign
5. Univ. of Michigan–Ann Arbor
6. California Inst. of Technology
7. Georgia Inst. of Technology
8. Cornell University (NY)
9. Purdue U.–West Lafayette (IN)
10. Carnegie Mellon Univ. (PA)

ENVIRONMENTAL/ ENVIRONMENTAL HEALTH

1. Stanford University (CA)
2. Univ. of California–Berkeley
3. Univ. of Michigan–Ann Arbor
4. University of Illinois–
Urbana-Champaign
5. Johns Hopkins Univ. (MD)
6. University of Texas–Austin
7. California Inst. of Technology
8. Georgia Inst. of Technology
9. Massachusetts Inst. of Tech.
10. University of North Carolina–
Chapel Hill

INDUSTRIAL/ MANUFACTURING

1. Georgia Institute of
Technology
2. Univ. of Michigan–Ann Arbor
3. Purdue U.–West Lafayette (IN)
4. Penn State University–
University Park
6. Texas A&M University–
College Station
7. Northwestern University (IL)
8. Virginia Tech
9. Stanford University (CA)
10. Univ. of Wisconsin–Madison

MATERIALS

1. Massachusetts Inst. of Tech.
2. Northwestern University (IL)
3. University of Illinois–
Urbana-Champaign
4. Univ. of California–Berkeley
5. Stanford University (CA)
6. Univ. of Michigan–Ann Arbor
7. Univ. of Calif.–Santa Barbara
8. Penn State University–
University Park
9. Cornell University (NY)
10. University of Florida

MECHANICAL

1. Massachusetts Inst. of Tech.
2. Univ. of Michigan–Ann Arbor
3. Univ. of California–Berkeley
4. Stanford University (CA)
5. University of Illinois–
Urbana-Champaign
6. Georgia Inst. of Technology
7. Purdue U.–West Lafayette (IN)
8. California Inst. of Technology
9. U. of Minnesota–Twin Cities
10. Cornell University (NY)

NUCLEAR

1. Massachusetts Inst. of Tech.
2. Univ. of California–Berkeley
3. Univ. of Michigan–Ann Arbor
4. Univ. of Wisconsin–Madison
5. Texas A&M University–
College Station
- University of Illinois–
Urbana-Champaign
7. Purdue University–
West Lafayette (IN)
8. North Carolina State Univ.
Penn State University–
University Park
10. University of Florida

PETROLEUM

1. University of Texas–Austin
2. Texas A&M University–
College Station
3. Stanford University (CA)
4. Colorado School of Mines
5. University of Oklahoma
6. Penn State University–
University Park
7. University of Tulsa (OK)
8. Louisiana State University–
Baton Rouge
9. Texas Tech University
U. of Southern California

METHODOLOGY

Graduate programs at 185 schools were surveyed (164 responded); 145 provided all data needed to calculate rankings based on a weighted average of the 11 indicators described below. (All schools are listed in the directory.) Specialty rankings are based solely on nomination by educators at peer schools.

● **Quality assessment (weighted by .40):** Two surveys were conducted in the fall of 2001. Engineering school deans and deans of graduate studies were asked to rate program quality from “marginal” (1) to “outstanding” (5); 63 percent responded. The resulting score is weighted by .25. Corporate recruiters who hire from previously ranked programs were also asked to rate programs; 22 percent responded. Their opinions are weighted by .15.

● **Student selectivity (.10):** The strength of students entering in fall 2001 was measured by mean GRE quantitative and analytical scores (45 percent each) and the proportion of applicants accepted (10 percent).

● **Faculty resources (.25):** Based on the 2001 ratios of full-time Ph.D. students to full-time faculty (30 percent) and full-time master’s students to full-time faculty (15 percent); the proportions of full-time faculty in the National Academy of Engineering in 2001 (30 percent); and number of Ph.D. degrees granted in last school year (25 percent).

● **Research activity (.25):** U.S. News uses total research expenditures (60 percent) and research dollars per faculty member engaged in research (40 percent). Expenditures refer to separately funded research, public and private, conducted by the school, averaged over fiscal years 2000 and 2001.

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

● **Specialty rankings:** From the list of schools surveyed, deans nominated up to 10 schools for excellence in each of the areas listed. Those with the most votes appear.