Schools of Engineering

THE TOP SCHOOLS

Rank/School	Overall score	Peer assessment score (5.0 highest)	Recruiter assessment score (5.0 highest)	'06 average quantitative GRE score	'06 acceptance rate	'06 Ph.D. students/faculty	'06 faculty membership in National Academy of Engineering	'06 engineering school research expenditures (in millions)	'06 research expenditures per faculty member (in thousands)	Ph.D.'s granted 2005–2006	'06 total graduate engineering enrollment
1. **Massachusetts Institute of Technology**	100	4.9	4.8	779	22.2%	4.2	12.7%	$234.5	$644.3	288	2,662
2. **Stanford University** (CA)	99	4.8	4.7	781	31.2%	7.3	16.9%	$152.4	$725.8	247	3,243
3. **University of California–Berkeley**	87	4.8	4.5	771	18.4%	5.5	16.9%	$119.8	$493.0	206	1,639
4. **Georgia Institute of Technology**	83	4.4	4.3	763	34.9%	4.2	5.0%	$203.7	$423.4	315	3,925
5. **University of Illinois–Urbana-Champaign**	82	4.5	4.3	772	27.3%	4.1	3.5%	$200.1	$483.4	240	2,472
6. **Carnegie Mellon University** (PA)	80	4.2	4.2	775	22.3%	4.5	10.1%	$159.0	$760.6	142	1,634
7. **California Institute of Technology**	79	4.6	4.6	790	9.8%	5.7	10.5%	$80.9	$817.2	71	601
University of Southern California (Viterbi)	79	3.5	3.7	754	48.8%	5.6	15.7%	$169.8	$999.0	151	3,805
9. **University of Michigan–Ann Arbor**	76	4.4	4.2	772	40.0%	4.1	3.8%	$145.7	$484.2	218	2,450
10. **Cornell University** (NY)	75	4.3	4.2	785	24.3%	4.2	9.9%	$118.7	$608.7	122	1,295
11. **University of Texas–Austin**	74	4.2	4.1	763	29.7%	3.6	8.8%	$124.1	$516.9	191	2,125
12. **Purdue University–West Lafayette** (IN)	73	4.1	4.1	757	30.4%	3.8	3.6%	$121.8	$364.8	209	2,255
13. **University of California–San Diego** (Jacobs)	72	3.7	3.9	765	22.0%	4.9	10.1%	$138.6	$845.0	106	1,195
14. **Texas A&M University–College Station** (Look)	68	3.7	3.7	751	37.9%	2.9	3.7%	$196.1	$692.8	153	2,265
University of Wisconsin–Madison	68	4.1	4.0	776	22.8%	3.7	4.1%	$121.4	$549.2	114	1,515
16. **University of California–Los Angeles** (Samueli)	67	3.7	3.7	764	35.8%	5.3	11.8%	$89.2	$598.7	142	1,295
University of Maryland–College Park (Clark)	67	3.6	3.6	758	24.5%	4.2	6.1%	$151.6	$665.1	165	1,878
18. **Princeton University** (NJ)	65	4.1	4.1	784	17.7%	3.9	11.5%	$52.1	$410.5	81	500
19. **Columbia University** (Fu Foundation) (NY)	62	3.6	3.7	773	29.4%	4.1	10.2%	$84.4	$634.5	84	1,394
University of California–Santa Barbara	62	3.4	3.5	776	24.9%	4.3	17.2%	$81.1	$610.1	107	674
21. **Northwestern University** (McCormick) (IL)	61	3.9	3.8	770	27.6%	3.7	5.0%	$89.2	$506.9	119	1,121
Pennsylvania State University–University Park	61	3.8	3.8	755	34.8%	3.3	2.8%	$118.1	$329.8	191	1,628
23. **Harvard University** (MA)	57	3.5	3.7	740	12.8%	5.2	13.6%	$35.2	$596.6	29	345
University of Minnesota–Twin Cities	57	3.7	3.8	771	36.3%	3.6	5.7%	$71.7	$349.6	143	1,620
University of Washington	57	3.7	3.6	736	34.3%	4.0	5.7%	$91.6	$497.8	107	1,440
26. **Johns Hopkins University** (Whiting) (MD)	56	3.9	3.9	759	20.4%	4.1	3.0%	$54.3	$408.6	66	2,604
Ohio State University	56	3.6	3.6	758	27.8%	2.8	2.4%	$108.4	$438.8	136	1,211
University of Florida	56	3.5	3.4	757	43.3%	4.4	2.4%	$107.8	$387.6	181	2,224
29. **University of Pennsylvania**	55	3.5	3.8	760	32.3%	4.1	7.2%	$54.5	$550.1	48	1,073
30. **Duke University** (NC)	53	3.6	3.8	764	28.9%	3.6	1.8%	$59.8	$548.4	53	574
Rice University (Brown) (TX)	53	3.7	3.8	760	15.3%	4.4	6.6%	$33.2	$322.3	73	513
University of Rochester (NY)	53	2.7	3.0	767	19.6%	3.6	3.6%	$102.1	$1,244.8	27	430
33. **Virginia Tech**	52	3.6	3.7	768	27.8%	2.6	2.3%	$89.5	$267.2	147	1,891
34. **North Carolina State University**	51	3.3	3.4	756	23.2%	2.8	3.6%	$103.0	$360.2	119	1,903
University of California–Davis	51	3.4	3.7	749	34.3%	4.1	4.9%	$61.7	$342.5	80	1,133
36. **Rensselaer Polytechnic Institute** (NY)	50	3.5	3.9	755	33.3%	3.3	5.0%	$51.9	$314.6	101	1,054
37. **University of California–Irvine** (Samueli)	48	3.1	3.5	755	25.7%	4.1	5.8%	$66.1	$434.7	89	915
University of Virginia	48	3.3	3.4	753	20.8%	3.2	7.2%	$54.2	$410.4	51	720
Yale University (CT)	48	3.3	3.7	778	17.5%	2.8	10.4%	$25.3	$346.9	31	232
40. **University of Colorado–Boulder**	47	3.3	3.3	761	61.1%	3.2	5.8%	$56.7	$365.7	76	1,493
41. **Boston University**	45	2.9	3.2	763	26.6%	3.7	5.0%	$59.6	$500.6	64	664
42. **Lehigh University** (Rossin) (PA)	44	3.1	3.5	765	23.1%	2.9	8.7%	$31.5	$262.6	38	562
Vanderbilt University (TN)	44	3.2	3.4	757	15.0%	3.9	1.2%	$43.4	$510.6	40	416
Washington University in St. Louis (Sever)	44	3.2	3.6	760	25.5%	3.3	1.1%	$18.2	$207.1	44	820
45. **Case Western Reserve University** (OH)	43	3.3	3.4	766	28.0%	2.4	2.6%	$37.1	$316.8	70	627
Iowa State University	43	3.2	3.4	766	22.4%	2.3	0.5%	$65.5	$313.3	78	860
47. **Dartmouth College** (Thayer) (NH)	42	3.0	3.6	778	14.5%	2.1	2.3%	$20.6	$491.6	14	182
Rutgers, the State Univ. of N.J.–New Brunswick	42	3.0	3.2	730	25.6%	1.9	4.2%	$77.9	$381.7	66	865
University of Delaware	42	2.9	3.5	745	25.6%	3.8	3.4%	$39.3	$348.1	69	668
50. **Arizona State University** (Fulton)	41	3.1	3.2	759	44.1%	3.0	3.1%	$50.2	$264.0	100	1,603
University of Pittsburgh	41	2.9	3.3	776	34.5%	2.7	1.7%	$56.6	$456.6	52	626

Sources: *U.S. News*, the schools. Assessment data collected by Synovate.
Names of department heads used in the specialty rankings came from the American Society for Engineering Education.

SPECIALTIES

PROGRAMS RANKED BEST BY ENGINEERING SCHOOL DEPARTMENT HEADS

AEROSPACE/AERONAUTICAL/ASTRONAUTICAL

Rank/School	Average assessment score (5.0=highest)
1. California Institute of Technology	4.7
Massachusetts Institute of Technology	4.7
Stanford University (CA)	4.7
4. University of Michigan–Ann Arbor	4.4
5. Georgia Institute of Technology	4.3
6. Purdue University–West Lafayette (IN)	4.2
7. Princeton University (NJ)	4.0
8. University of Illinois–Urbana-Champaign	3.9
9. Cornell University (NY)	3.8
Texas A&M University–College Station (Look)	3.8

BIOMEDICAL/BIOENGINEERING

Rank/School	Average assessment score (5.0=highest)
1. Johns Hopkins University (Whiting) (MD)	4.7
2. Georgia Institute of Technology	4.6
University of California–San Diego (Jacobs)	4.6
4. University of Washington	4.5
5. Duke University (NC)	4.3
6. Boston University	4.2
University of Pennsylvania	4.2
8. Massachusetts Institute of Technology	4.1
9. Rice University (Brown) (TX)	4.0
10. Case Western Reserve University (OH)	3.9
University of Michigan–Ann Arbor	3.9

CHEMICAL

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	4.9
2. California Institute of Technology	4.8
University of Minnesota–Twin Cities	4.8
4. University of California–Berkeley	4.7
5. University of Wisconsin–Madison	4.6
6. Stanford University (CA)	4.5
7. Princeton University (NJ)	4.4
University of Texas–Austin	4.4
9. University of California–Santa Barbara	4.3
10. University of Delaware	4.1
University of Illinois–Urbana-Champaign	4.1

CIVIL

Rank/School	Average assessment score (5.0=highest)
1. University of California–Berkeley	4.8
2. University of Illinois–Urbana-Champaign	4.6
3. Stanford University (CA)	4.5
4. Georgia Institute of Technology	4.4
University of Texas–Austin	4.4
6. Massachusetts Institute of Technology	4.3
7. Purdue University–West Lafayette (IN)	4.2
University of Michigan–Ann Arbor	4.2
9. California Institute of Technology	4.0
10. Cornell University (NY)	3.9
Northwestern University (McCormick) (IL)	3.9
Virginia Tech	3.9

COMPUTER ENGINEERING

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	5.0
2. Stanford University (CA)	4.9
3. University of California–Berkeley	4.8
4. Carnegie Mellon University (PA)	4.7
University of Illinois–Urbana-Champaign	4.7
6. California Institute of Technology	4.2
Georgia Institute of Technology	4.2
Princeton University (NJ)	4.2
University of Michigan–Ann Arbor	4.2
University of Texas–Austin	4.2

ELECTRICAL/ELECTRONIC/COMMUNICATIONS

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	5.0
2. Stanford University (CA)	4.9
University of California–Berkeley	4.9
4. University of Illinois–Urbana-Champaign	4.7
5. California Institute of Technology	4.6
6. University of Michigan–Ann Arbor	4.5
7. Georgia Institute of Technology	4.4
8. Cornell University (NY)	4.3
9. Portland State University (Maseeh) (OR)	4.2
10. Princeton University (NJ)	4.1
Purdue University–West Lafayette (IN)	4.1
University of Texas–Arlington	4.1

ENVIRONMENTAL/ENVIRONMENTAL HEALTH

Rank/School	Average assessment score (5.0=highest)
1. Stanford University (CA)	4.8
2. University of California–Berkeley	4.5
University of Illinois–Urbana-Champaign	4.5
4. University of Texas–Austin	4.3
5. Johns Hopkins University (Whiting) (MD)	4.2
6. Georgia Institute of Technology	4.1
University of Michigan–Ann Arbor	4.1
8. California Institute of Technology	4.0
Carnegie Mellon University (PA)	4.0
University of North Carolina–Chapel Hill	4.0

INDUSTRIAL/MANUFACTURING

Rank/School	Average assessment score (5.0=highest)
1. Georgia Institute of Technology	4.8
2. University of Michigan–Ann Arbor	4.5
3. Pennsylvania State University–University Park	4.2
University of California–Berkeley	4.2
5. Stanford University (CA)	4.1
6. Northwestern University (McCormick) (IL)	4.0
Purdue University–West Lafayette (IN)	4.0
8. Cornell University (NY)	3.9
Texas A&M University–College Station (Look)	3.9
Virginia Tech	3.9

MATERIALS

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	4.8
2. Northwestern University (McCormick) (IL)	4.6
University of Illinois–Urbana-Champaign	4.6
4. University of California–Berkeley	4.5
University of California–Santa Barbara	4.5
6. Stanford University (CA)	4.4
7. Cornell University (NY)	4.3
Pennsylvania State University–University Park	4.3
9. Georgia Institute of Technology	4.2
University of Florida	4.2
University of Michigan–Ann Arbor	4.2

MECHANICAL

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	4.9
Stanford University (CA)	4.9
3. California Institute of Technology	4.8
University of California–Berkeley	4.8
5. University of Michigan–Ann Arbor	4.6
6. University of Illinois–Urbana-Champaign	4.5
7. Georgia Institute of Technology	4.4
Purdue University–West Lafayette (IN)	4.4
9. Cornell University (NY)	4.3
10. Carnegie Mellon University (PA)	4.1
Princeton University (NJ)	4.1

NUCLEAR

Rank/School	Average assessment score (5.0=highest)
1. Massachusetts Institute of Technology	4.6
2. University of Michigan–Ann Arbor	4.5
3. University of Wisconsin–Madison	4.2
4. Texas A&M University–College Station (Look)	3.9
5. University of California–Berkeley	3.8
6. Pennsylvania State University–University Park	3.7
7. North Carolina State University	3.6
8. Purdue University–West Lafayette (IN)	3.4
9. University of Illinois–Urbana-Champaign	3.2
10. University of Florida	3.1

PETROLEUM

Rank/School	Average assessment score (5.0=highest)
1. Stanford University (CA)	4.8
University of Texas–Austin	4.8
3. Texas A&M University–College Station (Look)	4.3
4. University of Tulsa (OK)	4.1
5. Colorado School of Mines	3.4
6. University of Oklahoma	3.3
7. University of Southern California (Viterbi)	3.0
8. Louisiana State University–Baton Rouge	2.8
Pennsylvania State University–University Park	2.8
10. University of Kansas	2.5

METHODOLOGY

Programs at the 199 engineering schools that grant doctoral degrees were surveyed; 191 responded; 191 provided the data needed to calculate the rankings based on a weighted average of the 10 indicators described below. (All schools are listed in the directory, beginning on Page 73.)

Quality assessment (weighted by .40): Two surveys were conducted in fall 2006. Engineering school deans and deans of graduate studies at engineering schools were each asked to rate program quality from marginal (1) to outstanding (5); 61 percent responded. The resulting score is weighted by .25. Corporate recruiters and company contacts who hire engineers with graduate degrees from previously ranked engineering schools were also asked to rate programs; 28 percent responded. Their opinions are weighted by .15.

Student selectivity (.10): The strength of master's and Ph.D. students entering in fall 2006 was measured by mean GRE quantitative score (67.5 percent) and acceptance rate (32.5 percent).

Faculty resources (.25): Based on the 2006 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 2006 (30 percent); and the number of engineering doctoral degrees granted in the last 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, averaged over fiscal years 2005 and 2006.

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: These rankings are based solely on assessments by department heads in each specialty area. Department heads in their specialty area rated the other schools that offered the specialty on a 5-point scale. Those schools with the highest average scores appear here. Names of the department heads who were surveyed came from the American Society for Engineering Education.