TABLE 1-10a

Graduate students in engineering broad fields: 1975-2023

Total	Aerospace, aeronautical, and astronautical engineering Biological, biomedical, and biosystems	engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields ^a	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research		Mechanical engineering	Metallurgical, mining, materials and related engineering fields ^b		Other engineeri
68,332	1,670	883	5,397	12,560	16,320		11,663	8,601	2,7	2,788	
66,723	1,477	895	5,647	11,995	15,926		10,687	8,313	2,9	2,913	
68,757	1,518	855	5,652	12,335	17,406		10,438	8,722	3,0	3,037	
67,787	1,463	920	5,859	12,358	17,127		9,494	8,638	3,0	3,008	
71,808	1,481	1,004	6,109	12,822	17,715		10,729	9,251	3,	3,167	
74,335	1,737	964	6,541	13,097	19,132		9,698	9,888	3,3	3,347	
79,585	1,883	1,017	7,047	14,089	20,113		9,737	10,618	3,6	3,614	
83,720	1,941	1,085	7,808	14,122	21,927		9,577	11,467	3,6	3,603	
91,146	2,305	1,220	8,327	14,910	25,295		9,247	12,911	4,0	4,001	
92,739	2,340	1,315	8,144	15,192	26,388		9,282	13,855	4,	4,175	
96,018	2,538	1,335	8,144 7,959	14,902	28,203		10,525	14,157	4,4	4,448	
101,905	2,804	1,487	7,790	14,976	29,969		11,569	15,713	4,7	4,748	
103,983	3,015	1,628	7,959 7,385	14,682	31,399		12,353	16,366	4,9	4,910	
102,854	3,223	1,708		14,811	32,035		11,575	16,151	4,8	4,870	
104,065	3,524	1,867	7,147	14,909	33,257		11,333	16,265	5,0	5,053	
107,658	3,934	2,097	7,438	15,542	33,722		11,555	16,879	5,4	5,420	
113,535	4,120	2,199	7,862	17,398	35,111		12,996	17,730	5,6	5,692	
118,039	4,036	2,492	8,170	19,572	36,428		13,826	18,637	5,9	5,987	
116,872	3,940	2,640	8,279	19,583	35,290		13,905	18,477	5,8	5,837	
113,024	3,715	2,716	8,263	19,925	33,067		13,992	17,761	5,6	5,652	
107,201	3,343	2,693	8,062	19,218	30,861		13,475	16,363	5,3	5,329	
103,224	3,208	2,689	7,970	18,528	29,941		12,675	15,509	5,~	5,118	
101,148	3,083	2,797	7,849	17,193	30,787		11,957	15,045	5,(5,036	
100,038	3,137	2,855	7,664	16,517	31,384		11,221	14,696	4,9	4,984	
101,691	3,349	3,069	7,525	16,226	31,822		11,803	14,956	4,8	4,809	
104,112	3,407	3,197	7,683	16,451	33,611		12,119	15,235	4,6	4,664	
109,493	3,451	3,599	7,569	16,665	36,100		12,940	15,852	4,9	4,961	
119,668	3,685	4,338	8,180	17,713	39,948		14,033	17,139	5,2	5,259	
127,377	4,048	5,301	8,365	18,890	41,763		14,313	18,393	5,4	5,409	
123,566	4,089	5,807	8,297	18,561	38,995		13,852	17,852	5,3	5,367	
120,565	4,170	6,067	7,981	18,114	37,450		13,650	17,373	5,4	5,439	
123,041	4,482	6,482	8,074	17,802	38,265		13,829	17,919	5,4	5,512	
130,255	4,616	6,881	8,397	19,867	40,207		14,290	18,366	5,0	5,672	
131,676	4,616	6,904	8,598	16,071	40,588		14,474	18,347	5,	5,536	
137,856	4,902		8,901	16,931	41,164		15,692	19,585	5,6	5,829	
144,677	5,266	7,339 7,904	9,378	18,638	41,218		15,825	21,243	6.	6.175	

TABLE 1-10a

Graduate students in engineering broad fields: 1975-2023

(Number)

(Number)												
Year	Total	Aerospace, aeronautical, and astronautical engineering	Biological, biomedical, and biosystems engineering	Chemical, petroleum, and chemical-related engineering	Civil, environmental, transportation and related engineering fields ^a	Electrical, electronics, communications and computer engineering	Industrial, manufacturing, systems engineering and operations research	Mechanic	cal engineering	Metallurgical, mining, materials and related engineering fields ^b	Other 6	engineering ^c
2010	149,241	5,540	8,497	9,963	19,559	41,336		15,205	22,509		6,693	19,939
2011	146,501	5,691	9,175	10,129	19,596	41,580		14,494	21,883		7,149	16,804
2012	148,385	5,069	9,157	10,747	19,922	42,347		14,469	23,088		7,341	16,245
2013	153,049	5,181	9,198	11,307	20,110	45,562		14,363	24,087		7,501	15,740
2014old ^e	162,013	5,116	9,510	11,909	20,660	50,051		14,659	25,508		7,869	16,731
2014new ^e	164,488	5,116	9,510	11,926	20,789	51,909		14,845	25,651		7,914	16,828
2015	169,354	5,345	9,761	12,029	20,978	52,940		16,284	27,314		8,148	16,555
2016	168,443	5,416	10,208	12,049	20,569	50,062		16,200	27,898		8,484	17,557
2017old ^b	166,819	na	na	na	na	na		na	na		na	na
2017new ^b	165,581	5,708	11,116	11,744	21,132	47,752		15,905	27,428		7,082	17,714
2018	163,301	5,848	11,763	11,414	20,461	46,227		15,987	26,593		7,216	17,792
2019	164,004	6,255	12,358	10,938	19,625	46,754		15,674	26,108		7,083	19,209
2020	157,729	6,971	12,775	10,554	18,304	43,032		14,869	25,782		7,181	18,261
2021	168,050	7,838	14,059	10,696	19,608	45,265		15,870	27,258		7,422	20,034
2022	176,000	8,095	14,442	10,601	20,375	49,901		16,435	27,552		7,118	21,481
2023	175,559	8,264	15,203	10,546	19,934	48,799		15,762	27,014		7,244	22,793
Master's students												
2017new ^b	96,756	3,322	4,108	4,208	13,506	29,816		12,272	16,279		2,427	10,818
2018	93,064	3,342	4,282	3,815	12,729	28,108		12,389	15,434		2,395	10,570
2019	91,939	3,701	4,424	3,274	11,873	28,177		11,912	14,861		2,266	11,451
2020	86,450	4,326	4,536	2,942	10,819	25,312		11,030	14,305		2,299	10,881
2021	95,126	5,065	5,192	2,983	11,730	27,695		11,949	15,718		2,518	12,276
2022	103,020	5,263	5,177	3,011	12,621	32,316		12,579	16,029		2,545	13,479
2023	100,567	5,380	5,204	2,658	12,082	31,093		11,873	15,335		2,462	14,480
Doctoral students												
2017new ^b	68,825	2,386	7,008	7,536	7,626	17,936		3,633	11,149		4,655	6,896
2018	70,237	2,506	7,481	7,599	7,732	18,119		3,598	11,159		4,821	7,222
2019	72,065	2,554	7,934	7,664	7,752	18,577		3,762	11,247		4,817	7,758
2020	71,279	2,645	8,239	7,612	7,485	17,720		3,839	11,477		4,882	7,380
2021	72,924	2,773	8,867	7,713	7,878	17,570		3,921	11,540		4,904	7,758
2022	72,980	2,832	9,265	7,590	7,754	17,585		3,856	11,523		4,573	8,002
2023	74,992	2,884	9,999	7,888	7,852	17,706		3,889	11,679		4,782	8,313

na = not applicable; data were not collected at this level of detail in the year shown.

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- a In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in prior years. Architecture is reported as a separate field of engineering in 2007new" presents data as collected in prior years. Architecture is reported as a separate field of engineering in 2007new; data were reported under civil engineering in 2007new; data were reported as a separate field of engineering in 2007new; data as they would have been collected in prior years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.
- b As part of the 2017 Survey of Graduate Students and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy was changed to reported as part of the science detailed field multidisciplinary and interdisciplinary studies from 2007–16; and starting in 2017, architecture was removed.
- ^c Other engineering includes agricultural engineering; engineering mechanics, science, and physics; nuclear engineering, other; and, from 2007new to 2017old, architecture. Architecture was reported under civil engineering in 2007old and previous years.
- ^d Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.
- e In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, and health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314.

Prior to 2020, there were no broad fields in engineering, and this table includes all engineering detailed fields. All fields have been moved to match the current broad fields may not add to total because of rounding. For more information on the mapping of GSS fields and codes, see technical table A-17.

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.