

Table 4**Postdoc and nonfaculty researcher employment, by field: 2019–23**

(Number and percent change)

Characteristic	Postdoctoral appointees							Nonfaculty researchers						
	2019	2020	2021	2022	2023	Percent change		2019	2020	2021	2022	2023	Percent change	
						2019–23	2022–23						2019–23	2022–23
All surveyed fields	66,247	65,681	63,328	62,750	65,850	-0.6	4.9	30,349	29,661	30,548	32,279	34,342	13.2	6.4
Science and engineering	46,769	47,203	45,529	45,008	47,033	0.6	4.5	22,728	22,133	22,720	23,778	25,175	10.8	5.9
Science	38,503	38,741	37,189	36,673	37,982	-1.4	3.6	18,819	18,212	18,728	19,423	20,600	9.5	6.1
Agricultural and veterinary sciences	1,079	1,678	1,595	1,705	1,993	84.7	16.9	645	964	902	1,068	1,238	91.9	15.9
Biological and biomedical sciences	21,847	21,902	20,245	19,585	19,520	-10.7	-0.3	8,229	8,112	8,187	8,207	8,589	4.4	4.7
Computer and information sciences	878	823	880	859	987	12.4	14.9	510	458	457	507	631	23.7	24.5
Geosciences, atmospheric sciences, and ocean sciences	1,778	1,790	1,797	1,787	1,919	7.9	7.4	2,177	2,150	2,308	2,448	2,455	12.8	0.3
Mathematics and statistics	1,070	1,076	1,112	1,110	1,220	14.0	9.9	305	201	235	251	307	0.7	22.3
Multidisciplinary and interdisciplinary sciences	972	832	878	840	988	1.6	17.6	820	679	816	931	818	-0.2	-12.1
Natural resources and conservation	806	845	889	936	937	16.3	0.1	582	573	620	605	663	13.9	9.6
Physical sciences	7,159	6,937	6,823	6,877	7,220	0.9	5.0	3,316	2,890	2,895	2,894	3,095	-6.7	6.9
Psychology	1,152	1,312	1,325	1,308	1,344	16.7	2.8	576	749	803	786	950	64.9	20.9
Social sciences	1,762	1,546	1,645	1,666	1,854	5.2	11.3	1,659	1,436	1,505	1,726	1,854	11.8	7.4
Engineering	8,266	8,462	8,340	8,335	9,051	9.5	8.6	3,909	3,921	3,992	4,355	4,575	17.0	5.1
Aerospace, aeronautical, and astronautical engineering	227	233	277	244	254	11.9	4.1	124	149	144	153	166	33.9	8.5
Biological, biomedical, and biosystems engineering	1,602	1,696	1,616	1,540	1,594	-0.5	3.5	545	525	589	685	674	23.7	-1.6
Chemical, petroleum, and chemical-related engineering	1,229	1,157	1,167	1,239	1,501	22.1	21.1	410	330	307	313	349	-14.9	11.5
Civil, environmental, transportation, and related engineering fields	865	1,006	968	1,018	1,070	23.7	5.1	492	488	479	569	654	32.9	14.9
Electrical, electronics, communications, and computer engineering	1,305	1,302	1,275	1,217	1,339	2.6	10.0	637	706	755	734	799	25.4	8.9

Table 4**Postdoc and nonfaculty researcher employment, by field: 2019–23**

(Number and percent change)

Characteristic	Postdoctoral appointees							Nonfaculty researchers						
	2019	2020	2021	2022	2023	Percent change		2019	2020	2021	2022	2023	Percent change	
						2019–23	2022–23						2019–23	2022–23
Industrial, manufacturing, systems engineering, and operations research	167	194	127	143	170	1.8	18.9	137	155	107	197	221	61.3	12.2
Mechanical engineering	1,142	1,149	1,200	1,189	1,317	15.3	10.8	531	469	529	527	560	5.5	6.3
Metallurgical, mining, materials, and related engineering fields	665	630	562	542	557	-16.2	2.8	303	299	259	280	249	-17.8	-11.1
Other engineering	1,064	1,095	1,148	1,203	1,249	17.4	3.8	730	800	823	897	903	23.7	0.7
Health	19,478	18,478	17,799	17,742	18,817	-3.4	6.1	7,621	7,528	7,828	8,501	9,167	20.3	7.8
Clinical medicine	16,650	16,287	15,561	15,630	16,393	-1.5	4.9	6,273	6,500	6,751	7,351	7,798	24.3	6.1
Other health	2,828	2,191	2,238	2,112	2,424	-14.3	14.8	1,348	1,028	1,077	1,150	1,369	1.6	19.0

Note(s):

For more information on the mapping of fields and codes in the Survey of Graduate Students and Postdoctorates in Science and Engineering, see table A-17 at <https://nces.nsf.gov/surveys/graduate-students-postdoctorates-s-e/2023#technical-tables>.

Source(s):

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