

TABLE A-8

**Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2019–21**

(Number and percent)

Year and field	Total in survey		Number imputed		Imputation rate (%)	
	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers	Postdoctoral appointees	Doctorate nonfaculty researchers
Fall 2021, all surveyed fields	63,328	30,548	1,947	1,431	3.1	4.7
Science	37,189	18,728	1,456	1,160	3.9	6.2
Agricultural and veterinary sciences	1,595	902	5	9	0.3	1.0
Biological and biomedical sciences	20,245	8,187	1,198	651	5.9	8.0
Computer and information sciences	880	457	20	24	2.3	5.3
Geosciences, atmospheric sciences, and ocean sciences	1,797	2,308	26	137	1.4	5.9
Mathematics and statistics	1,112	235	6	2	0.5	0.9
Multidisciplinary and interdisciplinary studies	878	816	13	16	1.5	2.0
Natural resources and conservation	889	620	9	18	1.0	2.9
Physical sciences	6,823	2,895	140	215	2.1	7.4
Psychology	1,325	803	31	28	2.3	3.5
Social sciences	1,645	1,505	8	60	0.5	4.0
Engineering	8,340	3,992	123	113	1.5	2.8
Aerospace, aeronautical, and astronautical engineering	277	144	1	0	0.4	0.0
Biological, biomedical, and biosystems engineering	1,616	589	52	22	3.2	3.7
Chemical, petroleum, and chemical-related engineering	1,167	307	4	10	0.3	3.3
Civil, environmental, transportation and related engineering fields	968	479	10	19	1.0	4.0
Electrical, electronics, communications and computer engineering	1,275	755	16	43	1.3	5.7
Industrial, manufacturing, systems engineering and operations research	127	107	3	7	2.4	6.5
Mechanical engineering	1,200	529	22	6	1.8	1.1
Metallurgical, mining, materials and related engineering fields	562	259	11	2	2.0	0.8
Other engineering	1,148	823	4	4	0.3	0.5
Health	17,799	7,828	368	158	2.1	2.0
Clinical medicine <sup>a</sup>	15,561	6,751	285	150	1.8	2.2
Other health	2,238	1,077	83	8	3.7	0.7
Fall 2020, all surveyed fields <sup>b</sup>	65,681	29,661	2,927	1,935	4.5	6.5
Science	38,741	18,212	2,162	1,304	5.6	7.2
Agricultural and veterinary sciences	1,678	964	81	62	4.8	6.4
Biological and biomedical sciences	21,902	8,112	1,583	667	7.2	8.2
Computer and information sciences	823	458	25	22	3.0	4.8

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Geosciences, atmospheric sciences, and ocean sciences	1,790	2,150	31	102	1.7	4.7
Mathematics and statistics	1,076	201	39	11	3.6	5.5
Multidisciplinary and interdisciplinary studies	832	679	83	52	10.0	7.7
Natural resources and conservation	845	573	56	75	6.6	13.1
Physical sciences	6,937	2,890	149	176	2.1	6.1
Psychology	1,312	749	66	53	5.0	7.1
Social sciences	1,546	1,436	49	84	3.2	5.8
Engineering	8,462	3,921	134	288	1.6	7.3
Aerospace, aeronautical, and astronautical engineering	233	149	2	5	0.9	3.4
Biological, biomedical, and biosystems engineering	1,696	525	39	65	2.3	12.4
Chemical, petroleum, and chemical-related engineering	1,157	330	5	45	0.4	13.6
Civil, environmental, transportation and related engineering fields	1,006	488	12	29	1.2	5.9
Electrical, electronics, communications and computer engineering	1,302	706	16	36	1.2	5.1
Industrial, manufacturing, systems engineering and operations research	194	155	17	53	8.8	34.2
Mechanical engineering	1,149	469	26	16	2.3	3.4
Metallurgical, mining, materials and related engineering fields	630	299	11	15	1.7	5.0
Other engineering	1,095	800	6	24	0.5	3.0
Health	18,478	7,528	631	343	3.4	4.6
Clinical medicine <sup>a,c</sup>	16,287	6,500	522	262	3.2	4.0
Other health	2,191	1,028	109	81	5.0	7.9
Fall 2019, all surveyed fields	66,247	30,349	2,986	2,886	4.5	9.5
Science	38,503	18,819	1,327	1,863	3.4	9.9
Agricultural sciences	1,079	645	10	90	0.9	14.0
Biological and biomedical sciences	21,847	8,229	864	924	4.0	11.2
Computer and information sciences	878	510	27	24	3.1	4.7
Geosciences, atmospheric sciences, and ocean sciences	1,778	2,177	37	108	2.1	5.0
Mathematics and statistics	1,070	305	27	34	2.5	11.1
Multidisciplinary and interdisciplinary studies	972	820	24	17	2.5	2.1
Natural resources and conservation	806	582	21	25	2.6	4.3
Physical sciences	7,159	3,316	196	509	2.7	15.3
Psychology	1,152	576	71	26	6.2	4.5
Social sciences	1,762	1,659	50	106	2.8	6.4

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Engineering	8,266	3,909	258	394	3.1	10.1
Aerospace, aeronautical, and astronautical engineering	227	124	3	9	1.3	7.3
Agricultural engineering	112	55	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,515	492	119	74	7.9	15.0
Biological and biosystems engineering	87	53	0	5	0.0	9.4
Chemical engineering	1,157	328	24	45	2.1	13.7
Civil engineering	865	492	11	41	1.3	8.3
Electrical, electronics, and communications engineering	1,305	637	35	82	2.7	12.9
Engineering mechanics, physics, and science	180	186	0	4	0.0	2.2
Industrial and manufacturing engineering	167	137	16	49	9.6	35.8
Mechanical engineering	1,142	531	24	33	2.1	6.2
Metallurgical and materials engineering	642	242	17	7	2.6	2.9
Mining engineering	23	61	0	3	0.0	4.9
Nanotechnology	151	76	0	0	0.0	0.0
Nuclear engineering	80	41	0	6	0.0	14.6
Petroleum engineering	72	82	0	32	0.0	39.0
Engineering nec	541	372	9	4	1.7	1.1
Health	19,478	7,621	1,401	629	7.2	8.3
Clinical medicine <sup>a</sup>	16,650	6,273	1,290	552	7.7	8.8
Other health	2,828	1,348	111	77	3.9	5.7

nec = not elsewhere classified.

<sup>a</sup> Clinical medicine includes postdoctoral appointees and nonfaculty researchers in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics and gynecology, oncology and cancer research, ophthalmology, otorhinolaryngology, pediatrics, psychiatry, public health, pulmonary disease, radiological sciences, surgery, and clinical medicine nec.

<sup>b</sup> Several field names changed in 2020; the field names listed in this table are the field names used in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) collection and reporting for 2020. For a complete list of field names from 2017 to 2020, see <https://ncses.nsf.gov/pubs/nsf21318/table/A-17>.

<sup>c</sup> Beginning in 2020, clinical medicine includes postdoctoral appointees and doctorate-holding nonfaculty researchers in medical clinical sciences and clinical and medical laboratory sciences, public health, and clinical medicine nec.

**Note(s):**

"Field" refers to the field of the unit that reports postdoctoral appointees and doctorate-holding nonfaculty researchers to the GSS. Sum of the 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.

**Source(s):**

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