

TABLE A-8

Imputation for nonresponse in postdoc and nonfaculty research totals, by field: 2018–20

(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 2020, all surveyed fields ^a	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
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 ^b	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 and engineering	46,769	22,728	1,585	2,257	3.4	9.9
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

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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
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 ^c	16,650	6,273	1,290	552	7.7	8.8
Other health	2,828	1,348	111	77	3.9	5.7
Fall 2018, all surveyed fields	64,783	29,284	2,254	2,937	3.5	10.0
Science and engineering	45,478	21,848	1,571	2,231	3.5	10.2
Science	37,564	18,278	1,475	1,887	3.9	10.3
Agricultural sciences	1,072	565	14	0	1.3	0.0
Biological and biomedical sciences	21,533	8,250	861	1,097	4.0	13.3
Computer and information sciences	879	515	20	42	2.3	8.2
Geosciences, atmospheric sciences, and ocean sciences	1,726	2,106	145	90	8.4	4.3
Mathematics and statistics	982	266	11	53	1.1	19.9
Multidisciplinary and interdisciplinary studies	980	832	122	23	12.4	2.8
Natural resources and conservation	764	580	4	5	0.5	0.9

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Physical sciences	6,976	3,056	265	446	3.8	14.6
Psychology	1,145	507	19	29	1.7	5.7
Social sciences	1,507	1,601	14	102	0.9	6.4
Engineering	7,914	3,570	96	344	1.2	9.6
Aerospace, aeronautical, and astronautical engineering	207	115	2	11	1.0	9.6
Agricultural engineering	113	60	0	0	0.0	0.0
Bioengineering and biomedical engineering	1,433	440	9	47	0.6	10.7
Biological and biosystems engineering	96	51	0	0	0.0	0.0
Chemical engineering	1,142	257	8	10	0.7	3.9
Civil engineering	739	414	5	31	0.7	7.5
Electrical, electronics, and communications engineering	1,197	588	22	103	1.8	17.5
Engineering mechanics, physics, and science	354	220	19	8	5.4	3.6
Industrial and manufacturing engineering	156	105	8	32	5.1	30.5
Mechanical engineering	1,069	489	8	39	0.7	8.0
Metallurgical and materials engineering	549	215	0	0	0.0	0.0
Mining engineering	26	52	0	0	0.0	0.0
Nanotechnology	134	43	0	0	0.0	0.0
Nuclear engineering	106	41	7	8	6.6	19.5
Petroleum engineering	63	80	0	32	0.0	40.0
Engineering nec	530	400	8	23	1.5	5.8
Health	19,305	7,436	683	706	3.5	9.5
Clinical medicine ^c	16,563	6,159	572	637	3.5	10.3
Other health	2,742	1,277	111	69	4.0	5.4

nec = not elsewhere classified.

^a 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://nces.nsf.gov/pubs/nsf21318/table/A-17>.

^b 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.

^c 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.

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.