

TABLE 23
U.S. residing employed doctoral scientists and engineers in 4-year educational institutions, by broad field of doctorate, primary work activity, and secondary work activity: 2023

(Number and SE)

Field of study and primary work activity	All employed		Secondary work activity													
			Computer applications		Design		Management, sales, or administration ^a		R&D ^b		Teaching		Other ^c		None	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
All fields	341,350	2,475	11,000	550	5,500	375	85,650	1,225	123,150	1,675	62,550	1,150	25,450	825	28,050	725
Computer applications	3,600	275	na	na	200	75	400	100	2,050	200	350	125	150	75	450	125
Design	1,650	225	300	100	na	na	450	125	700	175	100	50	D	D	D	D
Management and administration	47,400	975	450	100	900	175	12,650	525	16,450	625	11,650	525	4,200	375	1,050	150
Research and development	140,000	1,700	7,600	425	3,400	300	35,650	900	36,200	1,050	45,400	1,125	5,300	400	6,400	375
Teaching	127,900	1,725	2,400	275	850	150	29,950	800	63,350	1,250	na	na	15,050	650	16,250	675
Other ^c	20,800	775	250	75	150	75	6,550	425	4,350	375	5,050	400	700	150	3,800	300
Science	272,100	2,250	8,300	500	3,600	300	69,600	1,200	96,050	1,500	49,700	1,025	21,350	750	23,400	675
Computer applications	2,650	250	na	na	100	50	300	75	1,750	200	200	75	100	50	250	100
Design	850	125	150	75	na	na	350	100	250	75	S	S	D	D	D	D
Management and administration	37,300	850	350	100	750	150	10,000	500	12,650	525	9,100	450	3,500	350	850	150
Research and development	109,950	1,550	5,600	350	2,100	225	29,150	875	26,750	900	36,200	975	4,500	350	5,600	350
Teaching	103,750	1,625	1,950	275	550	125	24,050	700	51,200	1,175	na	na	12,600	600	13,400	650
Other ^c	17,550	700	200	75	100	50	5,750	375	3,400	300	4,200	350	650	150	3,250	275
Biological, agricultural, and environmental life sciences	94,000	1,250	2,750	275	1,300	200	29,600	875	31,800	825	14,050	500	6,350	400	8,150	425
Computer applications	850	125	na	na	D	D	150	75	550	100	D	D	D	D	S	S
Design	150	50	50	50	na	na	S	S	S	S	D	D	D	D	D	D
Management and administration	14,700	575	150	75	250	125	4,050	350	5,900	375	2,900	250	1,150	200	300	75
Research and development	46,100	900	2,400	250	900	125	16,000	650	12,350	550	9,450	475	2,050	250	3,000	275
Teaching	24,700	700	100	50	100	50	6,950	425	11,150	525	na	na	2,950	300	3,450	350
Other ^c	7,450	425	D	D	D	D	2,350	225	1,800	250	1,650	225	200	75	1,400	200
Computer and information sciences	12,400	550	1,250	200	200	75	2,150	250	4,800	375	2,550	300	700	150	850	225
Computer applications	450	125	na	na	D	D	D	D	250	100	D	D	D	D	50	50
Design	D	D	D	D	na	na	D	D	D	D	D	D	D	D	D	D
Management and administration	1,500	200	D	D	S	S	200	100	500	125	550	125	200	75	D	D
Research and development	4,600	325	400	100	50	50	900	150	1,200	200	1,900	250	100	50	S	S
Teaching	5,600	450	850	175	S	S	850	175	2,850	300	na	na	400	125	650	200
Other ^c	250	75	D	D	D	D	150	75	D	D	D	D	D	D	50	50
Mathematics and statistics	19,900	725	850	150	100	50	3,300	325	7,350	400	4,350	325	1,750	200	2,150	225
Computer applications	150	50	na	na	D	D	D	D	50	50	D	D	D	D	D	D
Design	D	D	D	D	na	na	D	D	D	D	D	D	D	D	D	D
Management and administration	1,700	200	D	D	D	D	450	100	350	100	700	150	100	50	D	D
Research and development	6,450	425	400	100	D	D	700	150	1,450	225	3,550	300	S	S	200	75

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(Number and SE)

Field of study and primary work activity	All employed		Secondary work activity													
			Computer applications		Design		Management, sales, or administration ^a		R&D ^b		Teaching		Other ^c		None	
	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Management and administration	3,550	300	D	D	S	S	1,100	175	1,150	200	950	125	250	75	100	50
Research and development	7,400	350	350	125	150	50	2,200	225	1,700	175	2,450	250	150	50	400	100
Teaching	8,950	425	D	D	D	D	2,350	250	3,950	300	na	na	1,600	200	1,050	150
Other ^c	2,000	225	D	D	D	D	500	125	450	100	600	150	D	D	400	100

D = suppressed to avoid disclosure of confidential information. na = not applicable. S = suppressed for reliability; coefficient of variation exceeds publication standards.

SE = standard error.

^a Administration includes accounting, finance, contracts, and human resources.

^b R&D includes basic research, applied research, and experimental development.

^c Other work activities include production, operations, maintenance, professional services (e.g., health care, financial services, and legal services), and other activities not broken out separately.

Note(s):

Numbers are rounded to the nearest 50. Standard errors are rounded up to the nearest 25. Primary and secondary work activities were self-defined by the respondent in response to the question: "On which two activities...did you work the most hours during a typical week on this job?" Four-year educational institutions include 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes. Residence location is based on reported living location on 1 February 2023.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.