

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: 2019

(Number and SE)

Field of study and primary work activity	All employed		Secondary work activity											
			Computer applications		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
All fields	344,350	2,325	9,050	450	76,250	1,225	133,300	1,825	68,950	1,300	26,600	750	30,300	825
Computer applications	3,450	275	na	na	450	100	2,200	225	200	75	150	75	450	125
Management and administration	45,900	850	250	100	12,150	475	15,850	600	11,750	525	4,750	375	1,150	200
Research and development	140,200	1,550	6,800	375	31,000	825	39,250	925	50,800	1,150	4,950	325	7,400	425
Teaching	132,800	1,575	1,800	225	25,700	775	70,950	1,300	na	na	16,100	600	18,200	625
Others	21,950	800	150	100	6,950	475	5,050	350	6,150	450	600	175	3,100	225
Science	277,850	1,975	7,050	375	62,800	1,075	105,550	1,400	55,250	1,250	21,750	675	25,400	750
Computer applications	2,650	225	na	na	350	100	1,700	200	150	75	150	50	300	100
Management and administration	36,600	775	150	50	9,550	425	12,900	500	9,200	500	4,000	325	850	175
Research and development	111,950	1,450	5,400	325	25,650	725	29,900	750	40,600	1,075	4,050	300	6,400	400
Teaching	107,650	1,475	1,400	175	21,250	700	56,800	1,050	na	na	13,050	550	15,200	550
Others	19,000	775	S	S	6,000	450	4,250	325	5,350	425	550	150	2,700	200
Biological, agricultural, and environmental life sciences	96,250	1,175	2,450	200	26,100	800	36,150	825	16,050	650	7,050	400	8,450	425
Computer applications	800	125	na	na	150	75	550	100	D	D	D	D	100	50
Management and administration	13,350	575	D	D	3,200	275	5,800	400	2,600	275	1,450	225	300	100
Research and development	49,050	900	2,200	200	14,500	575	15,300	575	11,150	525	2,100	225	3,750	325
Teaching	24,400	625	200	75	5,800	350	12,200	475	na	na	3,300	275	2,950	225
Others	8,650	500	D	D	2,450	275	2,350	225	2,300	275	150	75	1,350	175
Computer and information sciences	10,750	475	1,000	175	1,800	225	4,300	350	2,350	275	700	150	600	100
Computer applications	500	150	na	na	D	D	300	125	D	D	D	D	D	D
Management and administration	1,400	200	D	D	250	100	600	125	450	125	100	50	50	25
Research and development	3,800	300	450	125	600	125	800	150	1,800	250	50	50	S	S
Teaching	4,850	300	550	100	850	175	2,550	250	na	na	500	150	400	100
Others	250	75	D	D	50	50	D	D	100	75	D	D	*	*
Mathematics and statistics	20,200	525	750	150	2,600	200	8,150	425	4,800	375	1,450	175	2,400	275
Computer applications	250	75	na	na	D	D	100	50	D	D	D	D	D	D
Management and administration	1,200	150	D	D	400	75	250	75	500	100	*	*	S	S
Research and development	6,500	375	400	100	350	75	1,250	175	4,150	350	100	50	300	75
Teaching	11,900	450	350	100	1,750	175	6,550	400	na	na	1,350	150	1,900	225
Others	350	125	D	D	50	50	D	D	100	50	D	D	D	D
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	47,350	850	1,900	225	10,400	525	19,400	700	8,550	450	2,550	250	4,600	350
Computer applications	850	150	na	na	100	50	500	125	S	S	S	S	S	S

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: 2019

(Number and SE)

Field of study and primary work activity	All employed		Secondary work activity											
			Computer applications		Management, sales, or administration ^a		R&D ^b		Teaching		Other ^c		None	
			Number	SE	Number	SE	Number	SE	Number	SE	Number	SE	Number	SE
Management and administration	6,350	325	100	50	1,350	175	2,800	275	1,650	200	450	125	50	25
Research and development	19,900	625	1,600	200	3,700	300	6,400	400	6,400	375	500	100	1,300	175
Teaching	18,500	650	150	75	4,500	350	9,400	500	na	na	1,450	175	3,000	275
Others	1,750	225	D	D	750	125	300	75	450	150	50	25	200	75
Psychology	39,150	775	350	75	10,200	450	12,450	475	8,350	500	4,600	350	3,150	250
Computer applications	50	50	na	na	D	D	50	50	D	D	D	D	D	D
Management and administration	6,000	400	D	D	1,750	200	1,700	200	1,400	250	1,000	175	150	50
Research and development	12,900	500	300	75	3,500	300	2,500	225	5,550	425	700	125	350	100
Teaching	14,800	575	D	D	3,000	250	7,150	375	na	na	2,650	275	2,000	200
Others	5,350	450	D	D	2,000	275	1,050	175	1,350	225	250	125	700	125
Social sciences	64,150	975	600	150	11,650	475	25,100	650	15,200	600	5,400	375	6,200	400
Computer applications	200	75	na	na	D	D	150	75	D	D	D	D	D	D
Management and administration	8,250	400	D	D	2,600	250	1,800	200	2,650	250	950	175	200	100
Research and development	19,800	675	450	125	3,000	275	3,600	300	11,500	525	550	125	700	150
Teaching	33,200	775	100	50	5,350	350	19,000	550	na	na	3,800	350	4,950	375
Others	2,650	275	D	D	650	125	550	125	1,000	175	S	S	300	100
Engineering	45,250	925	1,800	275	8,350	450	20,100	675	9,700	550	2,300	275	3,000	275
Computer applications	800	150	na	na	S	S	500	125	D	D	D	D	S	S
Management and administration	5,900	350	S	S	1,500	200	2,200	225	1,450	200	400	100	250	100
Research and development	21,550	700	1,350	200	3,550	300	7,700	475	7,750	500	500	125	700	150
Teaching	15,750	625	400	150	2,800	300	9,400	525	na	na	1,350	225	1,800	225
Others	1,250	175	D	D	450	100	300	100	450	125	D	D	50	50
Health	21,250	550	150	75	5,150	325	7,600	425	3,950	275	2,500	250	1,900	250
Computer applications	50	25	na	na	D	D	*	*	D	D	D	D	D	D
Management and administration	3,400	250	D	D	1,100	150	750	125	1,100	175	350	100	50	25
Research and development	6,700	375	50	50	1,800	225	1,650	200	2,450	250	400	100	300	100
Teaching	9,350	500	D	D	1,700	200	4,750	325	na	na	1,700	225	1,200	200
Others	1,750	225	D	D	500	125	450	125	400	100	S	S	350	100

* = suppressed when population estimate < 25. 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 applied and basic research, design, and development.

^c Includes production, operations, maintenance, 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. Detail may not add to total because of rounding. Four-year educational institutions include 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes. 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?" Residence location is based on reported living location on 1 February 2019.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.