

TABLE R-4

## Volunteering experiences among doctoral scientists and engineers ages 55–75, by retirement status and select characteristics: 2023

(Number, percent, and SE)

Characteristic	Total		Annual time spent volunteering for religious, educational, health-related, or other charitable organizations						Annual time spent helping friends, neighbors, or relatives					
			None		Less than 50 hours		50 hours or more		None		Less than 50 hours		50 hours or more	
	Number	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE
U.S. residing doctorate recipient, ages 55–75	432,100	1,850	54.7	0.45	23.6	0.40	21.8	0.35	32.9	0.40	37.5	0.40	29.6	0.40
Employment and retirement status														
Employed, never retired	236,250	2,175	58.7	0.60	24.9	0.50	16.4	0.45	34.8	0.55	39.8	0.55	25.4	0.50
Employed, previously retired <sup>a</sup>	64,350	1,300	50.6	1.10	24.5	0.95	24.9	1.00	30.2	1.15	36.9	1.15	32.9	1.10
Not employed, not retired <sup>b</sup>	8,450	575	52.8	2.75	25.6	2.70	21.6	2.00	33.3	3.00	35.1	2.95	31.6	3.15
Not employed, retired	123,100	1,225	49.1	0.80	20.5	0.65	30.4	0.70	30.7	0.70	33.7	0.70	35.6	0.75
Sex														
Male	291,800	1,625	58.4	0.55	21.0	0.45	20.6	0.45	35.2	0.50	37.0	0.50	27.8	0.45
Female	140,300	1,200	46.9	0.65	28.9	0.50	24.2	0.55	28.3	0.55	38.5	0.60	33.2	0.60
Ethnicity and race														
Hispanic or Latino <sup>c</sup>	15,900	475	59.0	1.85	24.9	1.45	16.1	1.40	35.6	1.65	38.0	1.65	26.5	1.45
Not Hispanic or Latino <sup>d</sup>														
American Indian or Alaska Native	950	125	34.0	5.60	21.9	4.75	44.1	7.00	22.2	6.20	45.0	7.20	32.9	6.25
Asian	76,400	1,275	63.8	1.10	20.3	0.95	15.9	0.95	41.9	1.10	36.4	1.15	21.7	1.00
Black or African American	14,400	425	47.5	1.85	30.3	1.60	22.1	1.45	24.1	1.65	45.9	1.75	30.0	1.70
White	319,450	1,775	52.7	0.50	24.0	0.40	23.3	0.40	31.2	0.45	37.3	0.45	31.5	0.45
Other race <sup>e</sup>	5,000	400	51.6	4.15	23.7	2.80	24.7	3.80	25.1	3.35	40.1	4.30	34.8	4.15
Age														
55–60	128,600	1,550	56.3	0.80	26.4	0.65	17.3	0.65	33.6	0.80	40.1	0.80	26.3	0.75
61–65	101,500	1,350	56.2	0.90	24.1	0.80	19.7	0.70	31.3	0.95	39.9	0.85	28.9	0.80
66–70	103,800	1,325	54.7	0.85	21.1	0.75	24.2	0.75	32.7	0.90	35.0	0.80	32.3	0.85
71–75	98,200	1,200	50.9	0.90	22.0	0.80	27.2	0.75	33.9	0.80	34.3	0.85	31.8	0.80
Years since doctorate														
≤ 10	12,600	475	45.9	1.85	32.2	1.80	21.9	1.65	26.0	1.70	39.8	1.90	34.2	1.95
11–20	35,550	875	51.2	1.45	27.3	1.30	21.6	1.15	29.8	1.35	39.9	1.35	30.3	1.25
> 20	384,000	1,450	55.3	0.50	22.9	0.40	21.8	0.40	33.4	0.40	37.2	0.40	29.4	0.40
Disability status														
With disability	64,850	1,250	53.6	0.95	23.9	0.85	22.5	0.80	33.3	0.95	36.1	1.00	30.6	1.05
Without disability	367,250	2,025	54.8	0.50	23.5	0.40	21.7	0.40	32.9	0.40	37.8	0.45	29.4	0.35
Field of study														
Science	331,300	1,675	54.5	0.50	23.7	0.45	21.8	0.45	32.6	0.40	37.7	0.45	29.7	0.40
Biological, agricultural, and environmental life sciences	106,050	1,025	52.3	0.80	24.3	0.80	23.4	0.75	31.4	0.75	38.5	0.75	30.1	0.75
Computer and information sciences	11,350	350	55.5	2.50	22.2	2.20	22.3	2.00	34.3	2.55	36.1	2.75	29.6	2.15

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Characteristic	Total		Annual time spent volunteering for religious, educational, health-related, or other charitable organizations						Annual time spent helping friends, neighbors, or relatives					
			None		Less than 50 hours		50 hours or more		None		Less than 50 hours		50 hours or more	
	Number	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE	Percent	SE
Mathematics and statistics	16,750	425	64.8	1.95	16.2	1.40	19.0	1.50	41.3	2.15	33.4	1.95	25.3	1.60
Physical sciences, geosciences, atmospheric sciences, and ocean sciences	70,600	850	61.1	1.00	20.0	0.85	19.0	0.75	36.9	0.95	34.8	1.00	28.3	0.80
Psychology	68,950	725	51.3	1.05	27.3	1.00	21.4	0.75	28.2	0.90	40.2	1.00	31.5	0.90
Social sciences	57,550	775	51.4	1.20	25.3	0.95	23.4	1.05	31.6	1.00	38.4	1.00	29.9	1.05
Engineering	76,200	1,025	58.2	1.15	21.4	0.95	20.4	0.85	36.3	1.00	36.8	0.90	26.9	1.05
Health	24,600	500	45.5	1.50	28.3	1.20	26.1	1.55	27.3	1.15	36.8	1.30	36.0	1.45
Non-U.S. residing doctorate recipient, ages 55–75	66,400	1,300	66.9	1.25	18.0	1.00	15.2	1.00	38.9	1.20	35.8	1.30	25.3	1.10
Employment and retirement status														
Employed, never retired	42,350	1,075	71.4	1.65	17.5	1.10	11.2	1.25	41.4	1.60	35.2	1.55	23.4	1.30
Employed, previously retired <sup>a</sup>	10,500	600	59.8	3.20	20.3	2.70	19.9	2.30	32.6	3.15	41.3	3.45	26.1	3.00
Not employed, not retired <sup>b</sup>	1,250	225	55.4	8.85	20.9	6.35	23.7	6.60	32.7	8.40	45.1	9.30	22.2	8.25
Not employed, retired	12,300	750	58.5	2.70	17.4	2.25	24.1	2.25	36.4	2.75	32.3	3.00	31.4	2.90
Sex														
Male	52,450	1,175	68.1	1.40	17.0	1.05	14.9	1.10	40.0	1.45	35.6	1.55	24.5	1.30
Female	13,950	675	62.2	2.40	21.5	2.10	16.3	2.05	34.8	2.45	36.8	2.45	28.4	2.30
Age														
55–60	23,600	925	68.6	1.85	18.6	1.60	12.8	1.55	36.6	2.05	37.6	2.20	25.8	1.75
61–65	21,100	875	70.5	2.05	17.9	2.05	11.6	1.55	43.3	2.20	34.6	2.25	22.1	2.00
66–70	13,050	625	63.7	2.60	14.7	2.00	21.7	2.00	37.5	2.65	32.7	2.70	29.8	2.55
71–75	8,650	550	58.2	3.30	21.3	2.75	20.5	2.60	36.4	3.35	38.8	3.55	24.9	2.55
Field of study														
Science	46,300	1,250	65.7	1.55	19.5	1.25	14.8	1.15	37.9	1.25	36.1	1.45	26.0	1.25
Engineering	17,700	725	71.1	2.15	14.5	1.90	14.4	1.95	41.9	3.10	35.0	2.80	23.1	2.60
Health	2,400	250	58.1	5.75	14.1	3.45	27.8	5.45	35.6	6.20	36.1	5.15	28.3	6.00

SE = standard error.

<sup>a</sup> Employed and previously retired includes individuals who were working during the survey reference week and had retired previously from any position.

<sup>b</sup> Not employed and not retired includes individuals who were unemployed or not seeking work because of reasons other than retired.

<sup>c</sup> Hispanic or Latino may be of any race.

<sup>d</sup> American Indian or Alaska Native, Asian, Black or African American, and White are single race.

<sup>e</sup> Other race includes individuals who reported being Native Hawaiian or Other Pacific Islander, single race, and those who reported being more than one race.

**Note(s):**

Numbers are rounded to the nearest 50. Standard errors of numbers are rounded up to the nearest 25. Percentages are rounded to the nearest 0.1%. Standard errors of unrounded percentages (based on unrounded counts) are rounded up to the nearest multiple of 0.05%. Detail may not add to total because of rounding. 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.