

Table S1. Percent distribution by occupational category, for analytical and operational samples, separately by gender and degree field

	Analytical Sample				Operationalization Sample			
	Total	Males	Females	%Female	Total	Males	Females	%Female
Sample size (<i>n</i>)	17,789	12,538	5,251	29.52	63,962	47,700	16,262	25.42
Occupation								
computer and information scientists, research	2.12	2.50	1.21 ***	16.92	1.87	2.19	0.92 ***	12.49
computer support specialists	0.63	0.74	0.38 **	17.75	0.58	0.28	0.30 ***	14.15
computer system analysts	0.41	0.49	0.22 **	15.65	0.47	0.32	0.14 *	19.13
database administrators	0.21	0.26	0.10 *	14.10	0.30	0.22	0.08	19.97
network and computer systems administrators	0.05	0.05	0.04	28.89	0.08	0.06	0.02	19.60
network systems and data communications analysts	0.06	0.09	0.00 *	0.00	0.07	0.04	0.03	15.54
other computer information science occupations	0.06	0.08	0.01	7.00	0.10	0.15	0.05	33.95
computer engineers - software	4.22	5.16	1.99 ***	13.92	4.82	1.90	2.91 ***	11.88
mathematicians	0.54	0.63	0.31 **	17.27	0.36	0.19	0.17 ***	15.03
operations research analysts, including modeling	0.83	0.96	0.51 **	18.33	0.70	0.41	0.29 ***	16.74
statisticians	1.33	1.12	1.83 ***	40.58	0.97	1.64	0.67 ***	36.46
other mathematical scientists	0.25	0.26	0.22	26.22	0.15	0.13	0.01	24.01
postsecondary teachers: computer science teachers	1.58	1.75	1.19 **	22.25	1.82	1.39	0.43 ***	20.62
postsecondary teachers: mathematics and statistics teachers	3.23	3.15	3.43	31.35	2.96	3.03	0.07	25.89
agricultural and food scientists	1.85	1.67	2.27 **	36.19	2.11	2.01	0.09	24.58
biochemists and biophysicists	6.71	6.15	8.07 ***	35.48	3.76	5.71	1.94 ***	34.07
biological scientists (e.g., botanists, ecologists, zoologists)	7.86	6.09	12.09 ***	45.38	4.06	7.67	3.62 ***	39.21
medical scientists (excluding practitioners)	9.25	6.82	15.04 ***	48.01	6.39	12.81	6.43 ***	40.62
other biological and life scientists	2.75	1.98	4.60 ***	49.35	1.27	3.16	1.89 ***	45.90
forestry and conservation scientists	0.34	0.25	0.57 ***	48.89	0.31	0.36	0.06	28.91
postsecondary teachers: agriculture teachers	0.46	0.43	0.52	33.37	0.87	0.66	0.20 *	20.72
postsecondary teachers: biological sciences teachers	2.43	1.81	3.91 ***	47.47	4.08	7.46	3.37 ***	38.37
postsecondary teachers: health and related sciences teachers	0.12	0.10	0.16	39.92	0.48	0.68	0.21 **	32.82
postsecondary teachers: other natural sciences teachers	0.13	0.15	0.07	16.20	0.18	0.34	0.16 ***	39.25
chemists, except biochemists	6.77	7.07	6.07 *	26.45	6.22	5.17	1.05 ***	22.07
atmospheric and space scientists	0.91	0.99	0.73	23.55	0.80	0.57	0.23 **	19.46
geologists, including earth scientists	1.32	1.39	1.15	25.75	1.27	0.81	0.46 ***	17.91
oceanographers	0.40	0.42	0.34	25.46	0.31	0.30	0.00	25.16
astronomers	0.62	0.65	0.54	25.94	0.42	0.26	0.16 **	17.31
physicists	3.78	4.63	1.75 ***	13.68	3.17	1.15	2.02 ***	10.97
other physical scientists	0.66	0.68	0.61	27.34	0.55	0.48	0.06	23.13
postsecondary teachers: chemistry teachers	1.66	1.42	2.22 ***	39.65	2.42	3.06	0.63 ***	30.08
postsecondary teachers: earth, environmental, and marine sciences teachers	0.77	0.63	1.12 ***	42.85	1.16	1.49	0.33 **	30.38
postsecondary teachers: physics teachers	0.94	0.97	0.87	27.44	1.85	1.24	0.61 ***	18.59
economists	0.08	0.09	0.07	26.13	0.06	0.09	0.04	36.12
political scientists	0.02	0.01	0.03	50.05	0.00	0.02	0.02 **	100.00
psychologists, including clinical	0.05	0.05	0.06	34.41	0.03	0.08	0.05 **	51.08
anthropologists	0.01	0.00	0.03	100.00	0.00	0.01	0.01	68.19
sociologists	0.01	0.00	0.03	100.00	0.00	0.06	0.05 ***	85.90
historians	0.00	0.00	0.00	na	0.00	0.00	0.00	100.00
other social scientists	0.19	0.08	0.44 ***	68.92	0.10	0.41	0.31 ***	57.76
postsecondary teachers: economics teachers	0.02	0.03	0.00	4.03	0.03	0.01	0.02	6.42
postsecondary teachers: political science teachers	0.01	0.00	0.03	100.00	0.01	0.00	0.01	0.00

postsecondary teachers: psychology teachers	0.07	0.06	0.09	39.68	0.08	0.17	0.09 **	42.07
postsecondary teachers: sociology teachers	0.02	0.02	0.00	0.00	0.00	0.00	0.00	60.32
postsecondary teachers: other social sciences teachers	0.10	0.09	0.12	35.02	0.11	0.14	0.03	30.30
aeronautical, aerospace, astronautical engineers	1.04	1.26	0.50 ***	14.23	1.31	0.38	0.93 ***	9.00
chemical engineers	2.31	2.55	1.73 ***	22.17	2.33	1.11	1.22 ***	13.99
civil, including architectural and sanitary engineers	1.55	1.83	0.86	na	1.31	0.43	0.88 ***	10.00
computer engineer - hardware	0.76	0.99	0.23 ***	8.78	0.78	0.27	0.51 ***	10.52
electrical and electronics engineers	5.18	6.48	2.06 ***	11.76	5.36	1.57	3.79 ***	9.10
industrial engineers	0.32	0.33	0.29	26.70	0.32	0.26	0.06	21.47
mechanical engineers	3.29	4.30	0.87 ***	7.80	3.11	0.58	2.53 ***	5.96
agricultural engineers	0.13	0.16	0.05	11.01	0.14	0.00	0.14 ***	0.73
bioengineering and biomedical engineers	1.62	1.67	1.49	27.24	1.02	0.73	0.28 **	19.73
environmental engineers	0.83	0.81	0.88	31.40	0.68	0.51	0.17 *	20.30
marine engineers and naval architects	0.02	0.02	0.00	6.06	0.10	0.01	0.09 ***	2.78
materials and metallurgical engineers	2.28	2.64	1.43 ***	18.52	2.15	0.89	1.27 ***	12.32
mining and geological engineers	0.09	0.13	0.01 *	1.93	0.05	0.02	0.03	13.45
nuclear engineers	0.21	0.25	0.09 *	13.21	0.26	0.21	0.06	20.95
petroleum engineers	0.24	0.28	0.13 *	15.72	0.21	0.11	0.10 **	14.71
sales engineers	0.04	0.05	0.00	0.00	0.09	0.07	0.02	20.03
other engineers	1.01	1.23	0.47 ***	13.89	1.01	0.47	0.53 ***	13.80
postsecondary teachers: engineering teachers	2.82	3.02	2.35 *	24.59	4.68	2.60	2.07 ***	15.95
diagnosing/treating practitioners(e.g. dentists, optometrists, physicians)	2.00	2.11	1.75	25.78	2.43	2.75	0.32 *	27.86
registered nurses, pharmacists, dieticians, therapists, physician assistants	0.20	0.08	0.48 ***	72.55	0.12	0.73	0.61 ***	68.03
health technologists and technicians(e.g. dental hygienist)	0.08	0.06	0.13	45.97	0.05	0.15	0.10 ***	50.94
other health occupations	0.38	0.25	0.68 ***	53.19	0.23	0.70	0.47 ***	50.81
postsecondary teachers - health and related sciences teachers	0.43	0.33	0.68 **	46.36	0.55	1.19	0.65 ***	42.72
postsecondary teachers - health specialty	0.18	0.13	0.28 *	47.10	0.40	2.85	2.45 ***	70.93
computer and information systems managers	0.10	0.11	0.08	21.77	0.25	0.11	0.14 ***	13.05
engineering managers	0.23	0.28	0.11 *	13.83	0.97	0.36	0.61 ***	11.27
medical and health services managers	0.06	0.04	0.13 *	59.72	0.26	0.52	0.26 ***	40.25
natural sciences managers	0.24	0.25	0.22	26.31	0.76	1.02	0.25 **	31.22
secondary school teacher - computer, math or sciences	0.33	0.27	0.47 *	41.87	0.39	0.72	0.33 ***	38.68
secondary school teacher - social sciences	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00
technologists and technicians in the biological/life sciences	0.24	0.17	0.40 **	49.43	0.15	0.26	0.11 **	36.78
computer programmers (business, scientific, process control)	0.55	0.67	0.25 ***	13.48	0.68	0.22	0.46 ***	10.07
electrical, electronic, industrial, mechanical technicians	0.26	0.32	0.12 *	13.93	0.16	0.03	0.13 ***	6.31
drafting occupations, including computer drafting	0.01	0.01	0.00	0.00	0.02	0.01	0.01	16.12
surveying and mapping technicians	0.00	0.00	0.00		0.01	0.00	0.01	0.00
other engineering technologists and technicians	0.09	0.13	0.01 *	3.19	0.08	0.06	0.02	19.66
surveyors, cartographers, photogrammetrists	0.01	0.02	0.00	0.00	0.00	0.00	0.00	17.75
technologists and technicians in the mathematical sciences	0.02	0.02	0.00	0.00	0.02	0.01	0.00	19.45
technologists and technicians in the physical sciences	0.16	0.17	0.11	21.34	0.12	0.06	0.06 *	14.46
architects	0.01	0.00	0.04 *	100.00	0.01	0.00	0.01	5.48
actuaries	0.04	0.03	0.07	50.26	0.07	0.05	0.02	20.23
top-level managers, executives, administrators	1.05	1.21	0.67 **	18.77	4.04	2.75	1.29 ***	18.85
personnel, training, and labor relations specialists	0.06	0.03	0.12 *	62.40	0.17	0.27	0.10 **	35.60

other management related occupations	0.14	0.15	0.12	24.59	0.47	0.56	0.09	28.95
accountants, auditors, and other financial specialists	0.30	0.32	0.25	24.49	0.56	0.33	0.23 ***	16.56
personnel, training, and labor relations specialists	0.09	0.08	0.12	37.85	0.06	0.16	0.10 ***	48.15
other management related occupations	0.91	0.79	1.17 *	38.23	1.46	2.28	0.82 ***	34.78
pre-kindergarten and kindergarten teacher	0.00	0.00	0.00	na	0.00	0.00	0.00	100.00
elementary school teacher	0.01	0.01	0.00	26.28	0.01	0.11	0.09 ***	73.08
secondary school teacher - other subjects	0.03	0.03	0.04	35.51	0.01	0.01	0.01	35.81
special education teacher - primary and secondary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.55
other precollegiate teacher	0.03	0.02	0.06	50.94	0.03	0.05	0.02	35.79
postsecondary teachers: art, drama, and music teachers	0.01	0.02	0.00	0.00	0.01	0.00	0.01	0.00
postsecondary teachers: business commerce and marketing teachers	0.22	0.22	0.21	29.07	0.32	0.33	0.01	25.72
postsecondary teachers: education teachers	0.06	0.00	0.20 ***	100.00	0.02	0.14	0.12 ***	73.45
postsecondary teachers: english teachers	0.00	0.00	0.00	na	0.00	0.01	0.01 *	100.00
postsecondary teachers: foreign languages teachers	0.01	0.00	0.02	100.00	0.01	0.00	0.00	9.00
postsecondary teachers: history teachers	0.01	0.01	0.01	50.86	0.00	0.00	0.00	100.00
postsecondary teachers: physical education teachers	0.00	0.00	0.01	100.00	0.06	0.08	0.03	33.03
postsecondary teachers: other non-s and e postsecondary teachers	0.16	0.12	0.25 *	47.83	0.14	0.26	0.12 **	38.55
clergy and other religious workers	0.04	0.04	0.03	20.53	0.06	0.02	0.04	10.94
counselors, educational, vocational, mental health, and substance abuse	0.05	0.01	0.13 **	78.54	0.01	0.09	0.08 ***	75.44
social workers	0.00	0.00	0.00	na	0.00	0.01	0.01	85.09
insurance, securities, real estate and business services	0.00	0.00	0.01 *	75.37	0.22	0.14	0.08 *	17.84
sales occupations - commodities except retail	0.17	0.21	0.06	11.24	0.20	0.15	0.05	20.21
sales occupations - retail	0.12	0.13	0.10	25.30	0.08	0.05	0.04	16.50
other marketing and sales occupations	0.04	0.04	0.04	29.89	0.49	0.37	0.12	20.65
artists, broadcasters, editors, entertainers, public relations specialists, writ	0.27	0.24	0.34 ***	37.61	0.27	1.17	0.90 ***	59.83
historians, except sandt	0.41	0.24	0.80	na	0.00	0.00	0.00	na
accounting clerks and bookkeepers	0.00	0.00	0.00	na	0.00	0.02	0.02 ***	100.00
secretaries, receptionists, typists	0.00	0.00	0.00 *	0.00	0.00	0.05	0.05 **	90.26
other administrative(e.g. record clerks, telephone operators)	0.02	0.00	0.06	88.19	0.03	0.09	0.06 *	49.64
farmers, foresters and fishermen	0.06	0.04	0.11	52.06	0.04	0.01	0.03 **	6.15
lawyers, judges	0.04	0.05	0.00	1.72	0.53	0.73	0.21 **	32.25
librarians, archivists, curators	0.28	0.23	0.39	42.01	0.05	0.13	0.07	44.47
food preparation and services	0.06	0.07	0.04	16.66	0.01	0.02	0.01	33.44
protective services occupations	0.02	0.03	0.00	0.00	0.01	0.03	0.01	41.51
other service occupations, except health	0.01	0.01	0.00	0.00	0.03	0.02	0.01	18.52
other teachers and instructors in non-educational institutions	0.05	0.06	0.02	13.90	0.02	0.03	0.01	29.93
construction and extraction occupations	0.05	0.05	0.06	34.70	0.03	0.01	0.02	12.55
installation, maintenance, and repair occupations	0.01	0.02	0.00	0.00	0.02	0.00	0.02	0.00
precision/production occupations	0.00	0.01	0.00	0.00	0.03	0.01	0.02	7.23
operators and related occupations	0.01	0.01	0.00	12.90	0.02	0.00	0.02 ***	3.15
transportation/material moving occupations	0.02	0.02	0.02	29.13	0.03	0.01	0.02 *	10.37
other occupations	0.01	0.01	0.00 ***	0.00	0.14	0.37	0.23 **	47.36

* $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, for two-tailed test of sex differences.

Source: Author's calculations using data from the Survey of Doctorate Recipients and the O*NET Occupational Information Network Database, 1995-2013.