

TABLE A-2

Crosswalk of occupations used in the SDR data tables

(Crosswalk)

Science and engineering classification	Major occupation		Minor occupation		Detailed occupation			
	Code	Label	Code	Label	Code	Label		
Science occupations	1	Computer and mathematical scientists	11	Computer and information scientists	110510	Computer and information scientists, research		
					110520	Computer network architect		
					110540	Computer support specialists		
					110550	Computer system analysts		
					110560	Database administrators		
					110570	Information security analysts		
					110580	Network and computer systems administrators		
					110590	Software developers – applications and systems software		
					110600	Web developers		
					110610	Other computer and information science occupations		
					110880	Computer engineers, software		
					12	Mathematical scientists	121720	Mathematicians
							121730	Operations research analysts, including modeling
							121740	Statisticians
							121760	Other mathematical scientists
	18	Postsecondary teachers - computer and math sciences	182760	Postsecondary teachers: Computer sciences				
			182860	Postsecondary teachers: Mathematics and statistics				
	2	Biological, agricultural, and other life scientists	21	Agricultural and food scientists	210210	Agricultural and food scientists		
					22	Biological and medical scientists	220220	Biochemists and biophysicists
							220230	Biological scientists
							220250	Medical scientists (excluding practitioners)
							220270	Other biological and life scientists
					23	Environmental life scientists	230240	Forestry and conservation scientists
					28	Postsecondary teachers - life and related sciences	282710	Postsecondary teachers: Agriculture
							282730	Postsecondary teachers: Biological sciences
							282970	Postsecondary teachers: Other natural sciences
					3	Physical and related scientists	31	Chemists, except biochemists
	32	Earth scientists, geologists, and oceanographers	321920	Atmospheric and space scientists				
			321940	Geologists, including earth scientists				
			321950	Oceanographers				
	33	Physicists and astronomers	331910	Astronomers				
			331960	Physicists, except biophysicists				
	34	Other physical and related scientists	341980	Other physical scientists				
38	Postsecondary teachers - physical and related sciences	382750	Postsecondary teachers: Chemistry					
		382770	Postsecondary teachers: Earth, environmental, and marine sciences					

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	Code	Label	Code	Label	Code	Label
Science and engineering classification	4	Social and related scientists	38		382890	Postsecondary teachers: Physics
			41	Economists	412320	Economists
			42	Political scientists	422350	Political scientists
			43	Psychologists	432360	Psychologists, including clinical
			44	Sociologists and anthropologists	442310	Anthropologists
					442370	Sociologists
			45	Other social and related scientists	452380	Other social scientists
			48	Postsecondary teachers - social and related sciences	482780	Postsecondary teachers: Economics
					482900	Postsecondary teachers: Political science
					482910	Postsecondary teachers: Psychology
					482930	Postsecondary teachers: Sociology
					482980	Postsecondary teachers: Other social sciences
			Engineering occupations	5	Engineers	51
52	Chemical engineers	520850				Chemical engineers
53	Civil, architectural, or sanitary engineers	530860				Civil engineers, including architectural and sanitary
54	Electrical or computer hardware engineers	540870				Computer engineers, hardware
		540890				Electrical and electronics engineers
55	Industrial engineers	550910				Industrial engineers
56	Mechanical engineers	560940				Mechanical engineers
57	Other engineers	570830				Agricultural engineers
		570840				Bioengineers or biomedical engineers
		570900				Environmental engineers
		570920				Marine engineers and naval architects
		570930				Materials and metallurgical engineers
		570950				Mining and geological engineers
		570960				Nuclear engineers
		570970				Petroleum engineers
		570980				Sales engineers
		570990				Other engineers
58	Postsecondary teachers - engineering	582800				Postsecondary teachers: Engineering
Science-related or engineering-related occupations	6	S&E-related occupations				61
			611120	Registered nurses, pharmacists, dieticians, therapists, physician assistants, nurse practitioners		
			611130	Health technologists and technicians		
			611140	Other health occupations		
			612870	Postsecondary teachers, health and related sciences		

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	Code	Label	Code	Label	Code	Label			
			62	S&E managers	621420	Computer and information systems managers			
			621430	Engineering managers					
			621440	Medical and health services managers					
			621450	Natural sciences managers					
			63	S&E pre-college teachers	632530	Teachers: Secondary - computer, math, or sciences			
			632540	Teachers: Secondary - social sciences					
			64	S&E technicians and technologists	640260	Technologists and technicians, biological and life sciences			
			640530	Computer programmers, business, scientific, and process control					
			641000	Electrical, electronic, industrial, and mechanical technicians					
			641010	Drafting occupations, including computer drafting					
			641020	Surveying and mapping technicians					
			641030	Other engineers, technologists, and technicians					
			641040	Surveyors, cartographers, and photogrammetrists					
			641750	Technologists and technicians, mathematical sciences					
			641970	Technologists and technicians, physical sciences					
			65	Other S&E-related occupations	650810	Architects			
			651710	Actuaries					
			Non-science or non-engineering occupations	7	Non-S&E occupations	71	Non-S&E managers	711410	Top-level managers, executives, and administrators
						711460	Education administrators		
711470	Other mid-level managers								
72	Management-related occupations	721510				Accountants, auditors, and other financial specialists			
721520	Personnel, training, and labor relations specialists								
721530	Other management-related occupations								
73	Non-S&E precollege teachers	732510				Teachers: Pre-kindergarten and kindergarten			
732520	Teachers: Elementary								
732550	Teachers: Secondary - other subjects								
732560	Teachers: Special education - primary and secondary								
732570	Teachers: Other precollegiate area								
74	Non-S&E postsecondary teachers	742720				Postsecondary teachers: Art, drama, and music			
742740	Postsecondary teachers: Business commerce and marketing								
742790	Postsecondary teachers: Education								
742810	Postsecondary teachers: English								
742820	Postsecondary teachers: Foreign language								
742830	Postsecondary teachers: History								
742880	Postsecondary teachers: Physical education								

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			75	Social services and related occupations	742990	Postsecondary teachers: Other postsecondary fields
					750400	Clergy and other religious workers
					750700	Counselors, educational, vocational, mental health, and substance abuse
					752400	Social workers
			76	Sales and marketing occupations	762000	Insurance, securities, real estate, and business services
					762010	Sales occupations, commodities, except retail
					762020	Sales occupations, retail
					762030	Other marketing and sales occupations
			77	Art, humanities, and related occupations	770100	Writers, editors, public relations specialists, artists, entertainers, and broadcasters
					772330	Historians
			78	Other non-S&E occupations	780310	Accounting clerks and bookkeepers
					780320	Secretaries, receptionists, and typists
					780330	Other administrative occupations
					781100	Farmers, foresters, and fishermen
					781200	Lawyers and judges
					781300	Librarians, archivists, and curators
					782210	Food preparation and service occupations
					782220	Protective services
					782230	Other service occupations, except health
					783000	Other teachers and instructors
784010	Construction and extraction occupations					
784020	Installation, maintenance, and repair occupations					
784030	Precision/ production occupations					
784050	Transportation and material moving occupations					
785000	Other occupations					

S&E = science and engineering; SDR = Survey of Doctorate Recipients.

Source(s):

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