

TABLE A-2

Crosswalk of occupations used in the SDR data tables

(Crosswalk)

Science and engineering classification	Major occupational code and label (N20CPRMG, N20CMLST)	Minor occupational code and label (N20CPRNG, N20CNLST)	Detailed occupational code and label (N20CPR, N20CLST)	
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
	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
		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	311930
	32 Earth scientists, geologists and oceanographers			321920
			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		
	382890	Postsecondary teachers: Physics		
4 Social and related scientists	41 Economists	412320	Economists	
	42 Political scientists	422350	Political scientists	

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Engineering occupations	5 Engineers	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	
		51 Aerospace, aeronautical or astronautical engineers	57 Other engineers	510820	Aeronautical, aerospace and astronautical engineers
				520850	Chemical engineers
				530860	Civil engineers, including architectural and sanitary
				540870	Computer engineers, hardware
				540890	Electrical and electronics engineers
				550910	Industrial engineers
560940	Mechanical 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				
Science/ engineering related occupations	6 S&E related occupations	61 Health-related occupations	611110	Diagnosing and treating practitioners	
			611120	Registered nurses, pharmacists, dietitians, therapists, physician assistants, nurse practitioners	
			611130	Health technologists and technicians	
			611140	Other health occupations	
			612870	Postsecondary teachers, health and related sciences	
		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	

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			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/ non-engineering occupations	7	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		
				742990	Postsecondary teachers: Other postsecondary fields		
75	Social services and related occupations			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		

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				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, 2019.