

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	
		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
					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		

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	4 Social and related scientists	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 Aerospace, aeronautical or astronautical engineers	510820 Aeronautical, aerospace and astronautical engineers
				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/ engineering related occupations	61 Health-related occupations			611110 Diagnosing and treating practitioners	
				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			
	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			

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		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/ 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
			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

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

**Source(s):**

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