TABLE A-2

Crosswalk of occupations used in the SDR data tables

(Crosswalk)

Science and engineering classification	Major occupationsal code and label (N2OCPRMG, N2OCMLST)		Minor occupationsal code and label (N2OCPRNG, N2OCNLST)		Detailed occupationsal code and label (N2OCPR, N2OCLST)	
	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	311930	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
			38		382770	Postsecondary teachers: Earth, environmental, and marine sciences
			38		382890	Postsecondary teachers: Physics
	4	Social and related scientists	41	Economists	412320	Economists
			42	Political scientists	422350	Political scientists

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	Code	Label	Code	Label	Code	Label
			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	6	S&E 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
				S&E pre-college teachers	632540	Teachers: Secondary - social sciences
			64	S&E technicians and technologists	640260	Technologists and technicians, biological and life sciences

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(Crosswalk)

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	Code	Label	Code	Label	Code	Label
					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
					752400	Social workers
			76	Sales and marketing occupations	762000	Insurance, securities, real estate, and business services

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(Crosswalk)

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	Code	Label	Code	Label	Code	Label
					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, 2021.