

TABLE A-2

Occupations used in the 2023 NSCG data tables

(Crosswalk)

Broad occupation		Major occupation		Minor occupation		Detailed occupation			
Code	Label	Code	Label	Code	Label	Code	Label		
1	S&E occupations	1	Computer and mathematical scientists	11	Computer and information scientists	110510	Computer and information research scientists		
						110520	Computer network architects		
						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		
				12	Mathematical scientists	121720	Mathematicians		
						121730	Operations research analysts		
						121740	Statisticians		
						121760	Other mathematical scientists		
						121770	Data scientists		
						18	Postsecondary teachers - computer and mathematical sciences	182760	Postsecondary teachers - Computer sciences
								182860	Postsecondary teachers - Mathematical sciences
								2	Biological, agricultural, and other life scientists
		22	Biological and medical scientists	220220	Biochemists and biophysicists				
				220230	Biological scientists (e.g., botanists, ecologists, zoologists)				
				220250	Medical scientists (excluding practitioners)				
				220270	Other life scientists				
		23	Environmental life scientists	230240	Conservation scientists and foresters				
		28	Postsecondary teachers - life and related sciences	282710	Postsecondary teachers - Agriculture				
				282730	Postsecondary teachers - Biological sciences				
				282970	Postsecondary teachers - Other life and physical sciences (e.g., conservation, etc.)				
				3	Physical and related scientists	31	Chemists, except biochemists	311930	Chemists, except biochemists
		32	Earth, atmospheric, and ocean scientists					321920	Atmospheric and space scientists
						321940	Environmental scientists and specialists		
						321950	Geoscientists, including hydrologists and oceanographers		
						331960	Physicists, except biophysicists		
		33	Physicists			341980	Other physical scientists, including astronomers ^a		
		34	Other physical and related scientists, including astronomers			382750	Postsecondary teachers - Chemistry		
						382770	Postsecondary teachers - Atmospheric, earth, environmental, marine, and space sciences		
						382890	Postsecondary teachers - Physics		
						382750	Postsecondary teachers - Chemistry		

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		4	Social and related scientists	41	Economists	412320	Economists		
				42	Political scientists	422350	Political scientists		
				43	Psychologists	432360	Psychologists - research and applied (e.g., industrial-organizational, experimental) ^b		
				44	Sociologists and anthropologists	442310	Anthropologists and archeologists		
						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		
				5	Engineers	51	Aerospace, aeronautical, and astronautical engineers	510820	Aeronautical, aerospace, and astronautical engineers
						52	Chemical engineers	520850	Chemical engineers
						53	Civil, architectural, and sanitary engineers	530860	Civil engineers, including architectural and sanitary
		54	Electrical and computer hardware engineers			540870	Computer engineers, hardware		
						540890	Electrical and electronics engineers		
		55	Industrial engineers			550910	Industrial engineers, including health and safety		
		56	Mechanical engineers			560940	Mechanical engineers		
		57	Other engineers			570840	Bioengineers and biomedical engineers		
						570900	Environmental engineers		
						570920	Marine engineers and naval architects		
						570930	Materials engineers		
						570950	Mining and geological engineers, including mining safety engineers		
						570960	Nuclear engineers		
				570970	Petroleum engineers				
		570980	Sales engineers						
		570990	Other engineers, including agricultural ^c						
58	Postsecondary teachers - engineering	582800	Postsecondary teachers - Engineering						
2	S&E-related occupations	6	S&E-related occupations	61	Health-related occupations	611110	Diagnosing/treating practitioners (e.g., dentists, optometrists, physicians, psychiatrists, podiatrists, surgeons, veterinarians)		
						611120	Registered nurses, pharmacists, dieticians, therapists, physician assistants, nurse practitioners		
						611130	Health technologists and technicians (e.g., dental hygienists, health record technologists/technicians, licensed practical nurses, medical or laboratory technicians, radiological technicians)		
						611140	Other health occupations		
						611150	Psychologists - Health services (e.g., clinical, counseling, school psychologists) ^b		
						612870	Postsecondary teachers - Health		
						621420	Computer and information systems managers		
				62	S&E managers				

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						621430	Engineering managers
						621440	Medical and health services managers
						621450	Natural sciences managers
				63	S&E precollege teachers	632530	Teachers: Secondary - computer, math, or sciences
						632540	Teachers: Secondary - social sciences
				64	S&E technicians and technologists	640260	Technologists and technicians in the biological/life sciences
						640530	Computer programmers (business, scientific, process control)
						641000	Electrical, electronic, industrial, and mechanical technicians
						641010	Drafting occupations, including computer drafting
						641020	Surveying and mapping technicians
						641030	Other engineering technologists and technicians
						641040	Surveyors, cartographers, photogrammetrists
						641970	Technologists and technicians in the physical sciences
				65	Other S&E-related occupations	650810	Architects, except naval
						651710	Actuaries
3	Non-S&E occupations	7	Non-S&E occupations	71	Non-S&E managers	711410	Top-executives (e.g., chief executives, general and operations managers, legislators)
						711460	Education and childcare administrators
						711470	Other mid-level managers
				72	Management-related occupations	721510	Financial specialists (e.g., accountants, auditors)
						721520	Personnel, training, and labor relations specialists
						721530	Other management related occupations (e.g., buyers and purchasing agents, claims adjusters, compliance officers, logisticians, management analysts, marketing specialists)
				73	Non-S&E precollege teachers	732510	Teachers: Preschool and kindergarten
						732520	Teachers: Elementary and middle school
						732550	Teachers: Secondary - other subjects
						732560	Teachers: Special education - primary and secondary school
						732570	Teachers: Other precollegiate area
				74	Non-S&E postsecondary teachers	742720	Postsecondary teachers - Art, drama, and music
						742740	Postsecondary teachers - Business
						742790	Postsecondary teachers - Education
						742810	Postsecondary teachers - English language and literature
						742820	Postsecondary teachers - Foreign language and literature
						742830	Postsecondary teachers - History
						742880	Postsecondary teachers - Recreation and fitness studies
						742990	Postsecondary teachers - Other postsecondary fields
				75	Social services and related occupations	750400	Clergy and other religious workers

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Code	Label	Code	Label	Code	Label	Code	Label
						750700	Counselors (e.g., educational, vocational, mental health, and substance abuse)
						752400	Social workers
						752410	Miscellaneous community and social service specialists (e.g., probation officers and correctional treatment specialists)
			76	Sales and marketing occupations		762000	Sales representatives: services (e.g., insurance, securities, real estate, and business services)
						762010	Sales representatives: wholesale and manufacturing (e.g., industrial machinery/equipment/supplies)
						762020	Retail sales workers (e.g., furnishings, clothing, motor vehicles, cosmetics)
						762030	Miscellaneous sales and related workers
			77	Art, humanities, and related occupations		770100	Writers, editors, public relations specialists, artists, entertainers, broadcasters, and historians ^d
			78	Other non-S&E occupations		780310	Bookkeeping, accounting, and auditing clerks
						780320	Secretaries and administrative assistants, and receptionists
						780330	Other office and administrative support workers
						781100	Farming, fishing, and forestry occupations
						781200	Lawyers, judges, and related workers
						781250	Legal support workers (e.g., paralegals, legal assistants)
						781300	Librarians, archivists, and curators
						782210	Food preparation and service occupations (e.g., cooks, waitresses, bartenders)
						782220	Protective services occupations (e.g., firefighters, police, guards, wardens, park rangers)
						782230	Other service occupations, except health (e.g., personal care service occupations, building and grounds cleaning and maintenance occupations, etc.)
						783000	Other teachers and instructors (e.g., private tutors, dance or flying instructors, martial arts instructors)
						784010	Construction and extraction occupations
						784020	Installation, maintenance, and repair occupations
						784030	Production occupations (e.g., assemblers, bakers, metal workers, tailors, woodworkers)
						784050	Transportation and material moving occupations
						785000	Other occupations (not elsewhere classified)

S&E = science and engineering; NSCG = National Survey of College Graduates.

^a In 2023, "Astronomers" were merged with "Other physical scientists" to form "Other physical scientists, including astronomers" (341980).^b Prior to 2023, code 432360 represented all psychologists, including clinical. In 2023, a new code (611150) was introduced for psychologists in health services (e.g., clinical), and code 432360 was updated to represent only research and applied psychologists.^c In 2023, "Agricultural engineers" were merged with "Other engineers" to form "Other engineers, including agricultural" (570990).^d In 2023, "Historians" were merged with "Writers, editors, public relations specialists, artists, entertainers, and broadcasters" to form "Writers, editors, public relations specialists, artists, entertainers, broadcasters, and historians" (770100).**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.