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SESTAT degree field and occupational category

Field	Occupation
S&E	S&E
Mathematics/computer sciences	Mathematical/computer scientists
Computer and information sciences	Computer/information scientists
Computer sciences	Computer engineers—software
Computer systems analysis	Computer scientists, except systems analysts
Information services and systems	Computer systems analysts
Other	Information systems scientists/analysts
Mathematics	Other
Applied mathematics	Mathematical scientists
General mathematics	Mathematicians
Operations research	Operations research analysts, modeling
Statistics	Statisticians
Other	Other
	Postsecondary teachers
	Computer sciences
	Mathematics
Life/related sciences	Life scientists
Agricultural/food sciences	Agricultural/food scientists
Animal sciences	Biological scientists
Food sciences/technology	Biochemists/biophysicists
Plant sciences	Biological scientists
Other	Medical scientists, except practitioners
Biological sciences	Other
Biochemistry/biophysics	Environmental life scientists
Biology	Forestry/conservation
Botany	Postsecondary teachers
Cell/molecular biology	Agriculture
Ecology	Biological sciences
Genetics, plant and animal	Medical sciences
Microbiology	Other
Nutritional science	
Pharmacology, human and animal	
Physiology, human and animal	
Zoology	
Other	
Environmental life sciences	
Environmental science studies	
Forestry sciences	
Health/related sciences (included under life sciences for doctoral programs only)	
Audiology/speech pathology	
Health services administration	
Health/medical assistants	
Health/medical technologies	
Medical preparatory programs	
Medicine	
Nursing, 4 years or longer	
Pharmacy	
Physical therapy/other rehabilitation	
Public health, including environment	
Other	

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SESTAT degree field and occupational category

Field	Occupation
Physical/related sciences	Physical scientists
Chemistry, except biochemistry	Chemists, except biochemists
Earth science, geology, and oceanography	Earth scientists, geologists, and oceanographers
Atmospheric sciences/meteorology	Atmospheric and space scientists
Earth sciences	Geologists
Geology	Oceanographers
Other geological sciences	Physicists and astronomers
Oceanography	Astronomers
Physics and astronomy	Physicists
Physics	Other
Astronomy/astrophysics	Postsecondary teachers
Other	Chemistry
	Physics
	Earth, environmental, and marine science
Social/related sciences	Social scientists
Economics	Economists
Agricultural economics	Political/related scientists
Economics	Psychologists
Political/related sciences	Sociologists/anthropologists
International relations	Anthropologists
Political science/government	Sociologists
Public policy studies	Other
Psychology	Historians, science and technology
Clinical	Other
Counseling	Postsecondary teachers
Educational	Economics
Experimental	Political science
General	Psychology
Industrial/organizational	Sociology
Social	Other
Other	
Sociology/anthropology	
Anthropology/archaeology	
Area/ethnic studies	
Criminology	
Geography	
History of science	
Linguistics	
Philosophy of science	
Sociology	
Other	

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SESTAT degree field and occupational category

Field	Occupation
Engineering	Engineers
Aerospace/related	Aerospace/related
Aerospace, aeronautical, and astronautical	Architectural/civil
Architectural/civil	Civil
Architectural	Chemical
Civil	Electrical/related
Chemical	Computer—hardware
Electrical/related	Electrical/electronics
Computer and systems	Industrial
Electrical, electronics, and communications	Mechanical
Industrial	Other
Mechanical	Agricultural
Other	Bioengineers/biomedical
Agricultural	Environmental
Bioengineering/biomedical	Naval architects/marine
Engineering sciences, mechanics and physics	Materials/metallurgical
Environmental	Mining/geological
General	Nuclear
Geophysical	Petroleum
Materials, including ceramics and textiles	Sales
Metallurgical	Other
Mining and minerals	Postsecondary teachers
Naval architecture and marine	Engineering
Nuclear	
Petroleum	
Other	
Non-S&E	Non-S&E
Management/administration	Managers and administrators
Agricultural business/production	Top and mid-level managers, executives, and administrators
Accounting	Accountants, auditors, and other financial specialists
Business administration/management	Personnel, training, and labor relations specialists
Business, general	Other
Business and managerial economics	
Financial management	
Other	
Health/related (included in non-S&E for bachelor's and master's programs only)	Health-related occupations
Audiology/speech pathology	Health practitioners
Health services administration	Registered nurses, pharmacists, dietitians, and therapists
Health/medical assistance	Technologists/technicians
Health/medical technologies	Other
Medical preparatory programs	
Medicine nursing, 4 years or longer	
Pharmacy	
Physical therapy/rehabilitation	
Public health, including environment	
Other	

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SESTAT degree field and occupational category

Field	Occupation
Teaching/education	Teachers, except S&E postsecondary teachers
Education administration	Prekindergarten/kindergarten
Computer teacher education	Elementary school
Counselor education and guidance	Secondary:
Elementary teacher education	Computer, mathematics, or sciences
Mathematics teacher education	Social sciences
Physical education and coaching	Other
Preelementary teacher education	Special education
Science teacher education	Other precollegiate education
Secondary teacher education	Postsecondary teachers
Special education	Art, drama, and music
Social science teacher education	Business, commerce, and marketing
Other	Education
	English
	Foreign language
	History
	Home economics
	Law
	Physical education
	Social work
	Theology
	Trade/industrial
	Other health specialties
	Other
Social service/related disciplines	Social services/related occupations
Social work	Clergy/other religious workers
Other philosophy, religion, theology	Counselors, educational and vocational
	Social workers
Technology/technical disciplines	Technologists/technicians
Computer programming	Computer programmers
Data processing technology	Electrical, electronics, industrial, and mechanical engineering technicians
Electrical and electronics technologies	Drafting occupations
Industrial production technologies	Surveying and mapping engineering technicians
Mechanical engineering-related technologies	Other engineering technologists and technicians
Other engineering-related technologies	Surveyors
	Technologists and technicians
	Biological/life sciences
	Mathematical sciences
	Physical sciences
Sales/marketing	Sales/marketing
Business marketing/marketing management	Insurance, securities, real estate, and business services
Marketing research	Commodities, except retail
	Retail
	Other
Arts, humanities, and related disciplines	Art/humanities, and related occupations
English language, literature, and letters	Artists, editors, entertainers, public relations, and writers
Other foreign languages/literature	Historians, except science and technology
Liberal arts/general studies	
History	
Dramatic arts	
Fine arts	
Music	
Other visual/performing arts	

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SESTAT degree field and occupational category

Field	Occupation
Other	Other
Architecture/environmental design	Accounting clerks/bookkeepers
Other conservation, renewable natural resources	Secretaries, receptionists, and typists
Actuarial science	Other administrative
Communications	Architects
Journalism	Farmers, foresters, and fishermen
Other	Lawyers and judges
Criminal justice and protective services	Librarians, archivists, and curators
Home economics	Actuaries
Law, prelaw, and legal studies	Food preparation and service workers
Library science	Protective service workers
Parks, recreation, leisure, and fitness studies	Other service occupations, except health
Public administration	Construction trades, miners, and well drillers
Other public affairs	Mechanics and repairers
Other	Precision production
	Operators and related occupations
	Transportation and material movers
	Other

SESTAT Scientists and Engineers Statistical Data System

NOTES: Individual occupations included in SESTAT adhere to the Standard Occupational Classification (SOC), a U.S. Government standard classification scheme. SOC was developed through an interagency committee headed by the Office of Management and Budget. It is used by Federal agencies that collect employment and occupational data and was meant to provide comparability of data among different Federal statistics agencies. Major and minor S&E groupings of occupations as shown in this table were developed by the National Science Foundation.

SOURCE: National Science Foundation, Division of Science Resources Statistics, SESTAT, 1999.