NSF Science and Engineering Fields and THECB Science and Engineering Fields

(Source: National Science Foundation Higher Education Research and Development Survey)

NOTE: FAMIS (Financial Accounting Management Info. System) Reporting Codes are included after Field of Science (2)**

Examples of Disciplines: Computer and Information Sciences and Engineering Fields of R&D			
1. Computer and Information Sciences (2E) Artificial intelligence Computer and information technology administration and management Computer science	Computer software and media applications Computer systems analysis Computer systems networking and telecommunications	Data processing Information sciences, studies Information technology	
2. Engineering **1. Aerospace, Aeronautical/Astronautical Engineering (2A1)** Aerodynamics Aerospace engineering Space technology **2. Bioengineering/Biomedical Engineering (2A8)** Biological and biosystems engineering Biomaterials engineering Biomedical technology Medical engineering **3. Chemical Engineering (2A2)** Biochemical engineering Chemical and biomolecular engineering Engineering chemistry Paper science Petroleum refining science Polymer, plastics engineering	**4. Civil Engineering (2A3)** Architectural engineering Construction engineering Engineering management, administration Environmental, environmental health engineering Geotechnical and geoenvironmental engineering Sanitary engineering Structural engineering Surveying engineering Transportation and highway engineering Water resources engineering **5. Electrical, Electronic, and Communications Engineering (2A4)** Communications engineering Computer engineering Computer hardware engineering Computer software engineering Electrical and electronics engineering Laser and optical engineering Power Telecommunications engineering	**6. Industrial and Manufacturing Engineering (2A9)** Industrial engineering Manufacturing engineering Operations research Systems engineering **7. Mechanical Engineering (2A5)** Electromechanical engineering Mechatronics, robotics, automation engineering **8. Metallurgical/Materials Engineering (2A6)** Ceramic sciences and engineering Geophysical, geological engineering Materials engineering Metallurgical engineering Mining and mineral engineering Textile sciences and engineering Welding	**9. Other Engineering (2A7)** Agricultural engineering Engineering design Engineering mechanics Engineering physics Engineering science Forest engineering Nanotechnology Marine engineering Naval architecture Nuclear engineering Ocean engineering Petroleum engineering Other engineering fields that cannot be classified using any other Engineering Fields listed

Examples of Disciplines: Geosciences, Atmospheric, and Ocean Sciences Fields of R&D

3. Geosciences, Atmospheric, and Ocean Sciences

1. Atmospheric Sciences (2C1)
Aeronomy
Atmospheric chemistry and climatology
Atmospheric physics and dynamics
Extraterrestrial atmospheres
Meteorology
Solar
Weather modification

2. Geological and Earth Sciences (2C2)
Earth and planetary sciences
Geochemistry
Geodesy and gravity
Geology
Geomagnetism
Geophysics and seismology
Hydrology and water resources
Minerology and petrology
Paleomagnetism
Paleontology
Physical geography
Stratigraphy and sedimentation
Surveying

3. Ocean and Marine Sciences (2C3)
Biological oceanography
Chemical oceanography
Geological oceanography
Marine biology
Marine oceanography
Marine sciences
Physical oceanography

4. Other Geosciences, Atmospheric, and Ocean Sciences (2C5)
Other fields that cannot be classified using the fields listed for Atmospheric, Geological and Earth Sciences, and Ocean Sciences

Examples of Disciplines: Life Sciences Fields of R&D

4. Life Sciences

1. Agricultural Sciences (2G)
Agricultural business and management
Agricultural chemistry
Agricultural engineering—Report in Engineering
Agricultural production operations
Animal sciences
Applied horticulture and horticultural business services
Aquaculture
Fishing and fisheries sciences and management
Food science and technology
Forestry
International agriculture
Plant sciences
Soil sciences
Veterinary biomedical and clinical sciences
Veterinary medicine
Wood science

2. Biological and Biomedical Sciences (2H1)
Allergies and immunology
Biochemistry, biophysics, and molecular biology
Biogeography
Biology and biomedical sciences, general
Biomathematics, bioinformatics, and computational biology Biotechnology
Botany and plant biology
Cell, cellular biology, and anatomical sciences
Epidemiology, ecology and population biology
Foods, nutrition, and wellness studies
Genetics
Microbiological sciences and immunology
Molecular medicine
Neurobiology and neuroscience
Pharmacology and toxicology
Physiology, pathology and related sciences
Zoology, animal biology

3. Health Sciences (2F)
Advanced, graduate dentistry and oral sciences
Allied health and medical assisting services
Bioethics, medical ethics
Clinical/medical laboratory science/research and allied professions
Clinical medicine research (includes several medical fields that had been previously listed separately)
Communication disorders sciences and services
Dentistry
Dietetics and clinical nutrition services (was previously Nutritional sciences)
Gerontology, health sciences
Health and medical administrative services
Health, medical preparatory programs
Kinesiology and exercise science
Medical clinical science, graduate medical studies
Medical illustration and informatics
Medicine
Mental health
Nursing
Optometry
Osteopathic medicine, osteopathy
Pharmacy, pharmaceutical sciences, and administration
Podiatric medicine, podiatry
Public health
Radiological science
Registered nursing, nursing administration, nursing research and clinical nursing Rehabilitation and therapeutic professions

4. Natural Resources and Conservation (2H3)
Natural resources conservation and research
Natural resources management and policy
Renewable natural resources
Wildlife and wildlands science and management

5. Other life sciences (2H2)
Other life sciences that cannot be classified using other fields listed in Life Sciences

Examples of Disciplines: Mathematics and Statistics, Physical Sciences and Psychology Fields of R&D

5. Mathematics and Statistics (2D)

Applied mathematics
Mathematics
Statistics

6. Physical Sciences

1. Astronomy, Astrophysics (2B1)
Astronomy
Astrophysics
Planetary astronomy and science

2. Chemistry (2B2)
Analytical chemistry
Chemical physics
Environmental chemistry
Forensic chemistry
Inorganic chemistry
Organic chemistry
Organo-metallic chemistry
Physical chemistry
Polymer chemistry
Theoretical chemistry
(except Biochemistry—report in Biological and Biomedical Sciences)

3. Materials Science (2B5)
Materials chemistry
Materials science

4. Physics (2B3)
Acoustics
Atomic, molecular physics
Condensed matter and materials physics
Elementary particle physics
Mathematical physics
Nuclear physics
Optics, optical sciences
Plasma, high-temperature physics
Theoretical physics

5. Other Physical Sciences (2B4)
Other physical sciences that cannot be classified using the fields listed already in Physical Sciences

7. Psychology (2I)

Clinical psychology
Counseling and Applied psychology
Human development
Research psychology

Examples of Disciplines: Social Sciences and Other Sciences Fields of R&D

8. Social Sciences

1. Anthropology (2J5)
Cultural anthropology
Medical anthropology
Physical and biological anthropology

2. Economics (2J1)
Agricultural economics
Applied economics
Business development
Development economics and international development
Econometrics and quantitative economics
Industrial economics
International economics
Labor economics
Managerial economics
Natural resources economics
Public finance and fiscal policy

3. Political Science and Government (2J2)
Comparative government
Government
Legal systems
Political economy
Political science
Political theory

3. Sociology, Demography, and Population Studies (2J3)
Comparative and historical sociology
Complex organizations
Cultural and social structure
Demography and population studies
Group interactions
Rural sociology
Social problems and welfare theory
Sociology

4. Other social sciences (2J4)
Archaeology
Area, ethnic, cultural, gender, and group studies
Cartography
City, urban, community and regional planning
Criminal science and corrections
Criminology
Geography
Gerontology, social sciences
History, including history and philosophy of science & technology
International relations and national security studies
Linguistics
Public policy analysis
Regional studies
Urban studies, affairs

9. Other Sciences (2K)

Use this category for R&D that involves at least one S&E field (A–H) if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific field

Examples of Disciplines: Non-Science & Engineering Fields of R&D			
10. Non-S&E Fields **1. Business and Management (2M)** Business administration Business management Business, managerial economics Management information systems and services Marketing management and research **2. Communication and Communication Technologies (2L3)** Communication and media studies Communications technologies Journalism Radio, television, and digital communication **3. Education (2N)** Education administration and supervision Education research Teacher education, specific levels and methods Teaching fields	**4. Humanities (2L3)** English language and literature, letters Foreign languages and literature Humanities, general Liberal arts and sciences Philosophy and religious studies Theology and religious vocations **5. Law (2O)** Law Legal studies **6. Social Work (2P1)** **(This is not the same field as Social Sciences.)** (no specific examples)	**7. Visual and Performing Arts (2L1)** Drama, theater arts, stagecraft Film, video, and photographic arts Fine arts, studio arts Music	**8. Other non-S&E fields (2P2)** Architecture Family, consumer sciences and human sciences Landscape architecture Military technology and applied science Parks, sports, recreation, leisure and fitness Public administration and public affairs Other Non-S&E fields that cannot be classified using the fields listed in this Discipline (Non S&E). Also, use this category for R&D that involves multiple Non-S&E fields if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.