### A. Computer and Information Sciences
- 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

### B. Engineering
1. **Aerospace, Aeronautical, and Astronautical Engineering**
   - Aerodynamics
   - Aerospace engineering
   - Space technology
2. **Bioengineering and Biomedical Engineering**
   - Biological and biosystems engineering
   - Biomaterials engineering
   - Biomedical technology
   - Medical engineering
3. **Chemical Engineering**
   - Biochemical engineering
   - Chemical and biomolecular engineering
   - Engineering chemistry
   - Paper science
   - Petroleum refining process
   - Polymer, plastics engineering
4. **Civil Engineering**
   - Architectural engineering
   - Construction engineering
   - Engineering management, administration
   - Environmental, environmental health engineering
   - Geotechnical and geoenvironmental engineering
   - Structural engineering
   - Surveying engineering
   - Transportation and highway engineering
   - Water resources engineering
5. **Electrical, Electronic, and Communications Engineering**
   - 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**
   - Industrial engineering
   - Manufacturing engineering
   - Operations research
   - Systems engineering
7. **Mechanical Engineering**
   - Electromechanical engineering
   - Mechatronics, robotics, and automation engineering
8. **Metallurgical and Materials Engineering**
   - Ceramic sciences and engineering
   - Geophysical, geological engineering
   - Materials engineering
   - Metallurgical engineering
   - Mining and mineral engineering
   - Textile sciences and engineering
   - Welding
9. **Other Engineering**
   - Agricultural engineering
   - Engineering design
   - Engineering mechanics, physics, and science
   - Engineering physics
   - Engineering science
   - Forest engineering
   - Nanotechnology
   - Naval architecture and marine engineering
   - Nuclear engineering
   - Ocean engineering
   - Petroleum engineering
   - Other engineering fields that cannot be classified using the fields listed above

### C. Geosciences, Atmospheric Sciences, and Ocean Sciences
1. **Atmospheric Science and Meteorology**
   - Aeronomy
   - Atmospheric chemistry and climatology
   - Atmospheric physics and dynamics
   - Extraterrestrial atmospheres
   - Meteorology
   - Solar
   - Weather modification
2. **Geological and Earth Sciences**
   - Earth and planetary sciences
   - Geochemy
   - 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 Sciences and Marine Sciences**
   - Biological oceanography
   - Geological oceanography
   - Marine biology
   - Marine oceanography
   - Marine sciences
   - Oceanography, chemical and physical
4. **Other Geosciences, Atmospheric Sciences, and Ocean Sciences**
   - Other fields that cannot be classified using the fields listed above

Examples of disciplines continue on next page.
### D. Life Sciences

**1. Agricultural Sciences**
- Agricultural business and management
- Agricultural chemistry
- Agricultural economics
- Agricultural engineering—report in Engineering
- Agricultural production operations
- Animal sciences
- Applied horticulture and horticultural business services
- Aquaculture
- Food science and technology
- International agriculture
- Plant sciences
- Soil sciences
- Wood science

**2. Biological and Biomedical Sciences**
- Allergies and immunology
- Biochemistry, biophysics, and molecular biology
- Biogeography
- Biology and biomedical sciences, general

**3. Health Sciences**
- Advanced, graduate dentistry and oral sciences
- Allied health and medical assisting services
- Bioethics, medical ethics
- Clinical medicine research
- Clinical/medical laboratory science/research and allied professions
- Communication disorders sciences and services
- Dentistry
- Dietetics and clinical nutrition services
- Health and medical administrative services
- Health, medical preparatory programs
- Gerontology, health sciences
- Kinesiology and exercise science
- Medical clinical science, graduate medical studies
- Medical illustration and informatics
- Medicine
- Mental health
- 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
- Veterinary biomedical and clinical sciences
- Veterinary medicine
- Zoology

### E. Mathematics and Statistics

- Applied mathematics
- Mathematics
- Statistics

### F. Physical Sciences

**1. Astronomy and Astrophysics**
- Astronomy
- Astrophysics
- Planetary astronomy and science

**2. Chemistry**
- Analytical chemistry
- Chemical physics
- Environmental chemistry
- Forensic chemistry
- Inorganic chemistry
- Organic chemistry
- Organometallic chemistry
- Physical chemistry
- Polymer chemistry
- Theoretical chemistry

**3. Materials Science**
- Materials chemistry
- Materials science

**4. Physics**
- 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

### G. Psychology

- Clinical psychology
- Counseling and applied psychology
- Human development
- Research and experimental psychology

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Examples of disciplines continue on next page.
H. Social Sciences

1. Anthropology
   - Cultural anthropology
   - Medical anthropology
   - Physical and biological anthropology

2. Economics
   - Applied economics
   - Business development
   - Development economics and international development
   - Econometrics and quantitative economics
   - Industrial economics
   - International economics
   - Labor economics
   - Managerial economics
   - Public finance and fiscal policy

3. Political Science and Government
   - Comparative government
   - Government
   - Legal systems
   - Political economy
   - Political science
   - Political theory

4. Sociology, Demography, and Population Studies
   - Comparative and historical sociology
   - Complex organizations
   - Cultural and social structure
   - Demography and population studies
   - Group interactions
   - Rural sociology
   - Social problems and welfare theory
   - Sociology

5. Other Social Sciences
   - Archeology
   - Area, ethnic, cultural, gender, and group studies
   - Cartography
   - Criminal science and corrections
   - Criminology
   - Geography
   - Gerontology, social sciences
   - International relations and national security studies
   - Linguistics
   - Public policy analysis
   - Regional studies
   - Urban studies, affairs

I. Other Sciences

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

J. Non-S&E Fields

1. Business Management and Business Administration
   - Business administration
   - Business management
   - Business, managerial economics
   - Management information systems and services
   - Marketing management and research

2. Communication and Communications Technologies
   - Communication and media studies
   - Communications technologies
   - Journalism
   - Radio, television, and digital communication

3. Education
   - Education administration and supervision
   - Education research
   - Teacher education, specific levels and methods
   - Teaching fields

4. Humanities
   - English language and literature, letters
   - Foreign languages and literatures
   - History, including history and philosophy of science and technology
   - Humanities, general
   - Liberal arts and sciences
   - Philosophy and religious studies
   - Theology and religious vocations

5. Law
   - Law
   - Legal studies

6. Social Work
   - (no specific examples)

7. Visual and Performing Arts
   - Drama, theatre arts and stagecraft
   - Film, video, and photographic arts
   - Fine and studio arts
   - Music

8. Other Non-S&E Fields
   - Architecture
   - City, urban, community and regional planning
   - Family, consumer sciences and human sciences
   - Foods, nutrition, and wellness studies
   - Landscape architecture
   - Library science
   - 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 above

   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.