

# NSF Codes

## Examples of Disciplines: Computer and Information Sciences and Engineering Fields of R&D

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### A. Computer and Information Sciences

Artificial intelligence	Computer software and media applications	Data processing
Computer and information technology administration and management	Computer systems analysis	Information sciences, studies
Computer science	Computer systems networking and telecommunications	Information technology

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### B. Engineering

<b>1. Aerospace, Aeronautical, and Astronautical Engineering</b> Aerodynamics Aerospace engineering Space technology	<b>4. Civil Engineering</b> 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	<b>6. Industrial and Manufacturing Engineering</b> Industrial engineering Manufacturing engineering Operations research Systems engineering	<b>9. Other Engineering</b> 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
<b>2. Bioengineering and Biomedical Engineering</b> Biological and biosystems engineering Biomaterials engineering Biomedical technology Medical engineering	<b>5. Electrical, Electronic, and Communications Engineering</b> Communications engineering Computer engineering Computer hardware engineering Computer software engineering Electrical and electronics engineering Laser and optical engineering Power Telecommunications engineering	<b>7. Mechanical Engineering</b> Electromechanical engineering Mechatronics, robotics, and automation engineering	Other engineering fields that cannot be classified using the fields listed above
<b>3. Chemical Engineering</b> Biochemical engineering Chemical and biomolecular engineering Engineering chemistry Paper science Petroleum refining process Polymer, plastics engineering	<b>8. Metallurgical and Materials Engineering</b> Ceramic sciences and engineering Geophysical, geological engineering Materials engineering Metallurgical engineering Mining and mineral engineering Textile sciences and engineering Welding		

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

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### C. Geosciences, Atmospheric Sciences, and Ocean Sciences

<b>1. Atmospheric Science and Meteorology</b> Aeronomy Atmospheric chemistry and climatology Atmospheric physics and dynamics Extraterrestrial atmospheres Meteorology Solar Weather modification	<b>2. Geological and Earth Sciences</b> 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	<b>3. Ocean Sciences and Marine Sciences</b> Biological oceanography Geological oceanography Marine biology Marine oceanography Marine sciences Oceanography, chemical and physical	<b>4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences</b> Other fields that cannot be classified using the fields listed above
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## Examples of Disciplines: Life Sciences Fields of R&D

### 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

Biomathematics, bioinformatics, and computational biology  
 Biotechnology  
 Botany and plant biology  
 Cell, cellular biology, and anatomical sciences  
 Epidemiology, ecology and population biology  
 Genetics  
 Microbiological sciences and immunology  
 Molecular medicine  
 Neurobiology and neuroscience  
 Pharmacology and toxicology  
 Physiology, pathology and related sciences  
 Zoology, animal biology

#### 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  
 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  
 Veterinary biomedical and clinical sciences  
 Veterinary medicine  
 Zoology

#### 4. Natural Resources and Conservation

Fishing and fisheries sciences and management  
 Forestry  
 Natural resources conservation and research  
 Natural resources economics  
 Natural resources management and policy  
 Renewable natural resources  
 Wildlife and wildlands science and management

#### 5. Other Life Sciences

Other life sciences that cannot be classified using the fields listed above

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

### E. Mathematics and Statistics

Applied mathematics

Mathematics

Statistics

### F. Physical Sciences

#### 1. Astronomy and Astrophysics

Astronomy  
 Astrophysics  
 Planetary astronomy and science

#### 2. Chemistry

(except Biochemistry—report in Biological and Biomedical Sciences)  
 Analytical chemistry  
 Chemical physics  
 Environmental chemistry  
 Forensic chemistry  
 Inorganic chemistry  
 Organic chemistry  
 Organo-metallic 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

#### 5. Other Physical Sciences

Other physical sciences that cannot be classified using the fields listed above

### G. Psychology

Clinical psychology

Counseling and applied psychology

Human development

Research and experimental psychology

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

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### 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.

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## Examples of Disciplines: Non-S&E Fields of R&D

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### 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.

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