

CODES BY AREA OF APPLICATION

CFI will use the Code by area of application for analysis of the distribution of applications and awards by socio-economic objectives of the research supported by the infrastructure

The following classification system has been adapted by CFI from the system used for reporting federal science and technology expenditures in Canada. The federal reporting system is based on the Nomenclature for the Analysis and Comparison of Scientific Programmes and Budgets (NABS) developed and used by the Statistical Office of the European Communities (Eurostat).

All sections except for 10 below are arranged according to socio-economic objectives. Section 10 represents those areas of research that cannot be classified within the socio-economic framework.

Select the code(s) that best describe the area of application of the research (including the policy areas that may be influenced by the research) to be supported by the research infrastructure. Projects should be assigned one or two code(s) at the one digit or two digit level.

1. **EXPLORATION AND EXPLOITATION OF THE EARTH**

This area includes research with objectives related to the exploration and exploitation of the Earth's crust and mantle, seas, oceans and atmosphere. It includes climatic and meteorological research, polar exploration, and hydrology. This area excludes: research on pollution (area 3), soil improvement (area 2), land-use and fishing (area 6).

- 1.1 Mineral, oil and natural gas prospecting
- 1.2 Exploration and exploitation of the sea-bed
- 1.3 Earth's crust and mantle excluding sea-bed and studies of soils for agriculture (6)
- 1.4 Hydrology - excludes research on: water supplies and disposal (2.6) and water pollution (3.4 and 3.5)
- 1.5 Seas and oceans
- 1.6 Atmosphere
- 1.7 General and other research on the exploration and exploitation of the earth

2. **INFRASTRUCTURE AND GENERAL PLANNING OF LAND-USE**

This area covers research on infrastructure and land development, including research on the planning and construction of buildings, transport systems (including pipeline transport systems), telecommunications systems and water supply. It also covers research relating to the general planning of land-use, including housing, leisure and the development of the North. This area includes research into protection against harmful effects in town and country planning, and the potential effects on the environment of the planning and operation of transport systems, but not research into other types of pollution (area 3).

- 2.1 General planning of land-use
- 2.2 Construction and planning of building
- 2.3 Civil engineering - excludes research on building materials and industrial processes (area 7)
- 2.4 Transport systems
- 2.5 Telecommunication systems
- 2.6 Water supply
- 2.7 Development of the North

- 2.8 General and other research on the infrastructure and general planning of land-use

3. POLLUTION AND PROTECTION OF THE ENVIRONMENT

This area covers research into the control of environmental pollutants (chemical, biological, physical). It includes research aimed at the identification and analysis of the sources of pollution and their causes, and research on pollutants, including their dispersal in the environment and the effects on people, species (fauna, flora, microorganisms) and the biosphere. The area includes the development of monitoring facilities for the measurement of pollution and research on the elimination and prevention of pollution in all types of environment (atmosphere, air, water, soil).

- 3.1 Protection of atmosphere and climate
- 3.2 Protection of ambient air
- 3.3 Solid waste
- 3.4 Protection of ambient water
- 3.5 Protection of soil and groundwater
- 3.6 Noise and vibration
- 3.7 Protection of species and habitats
- 3.8 Protection against natural hazards
- 3.9 Radioactive pollution
- 3.10 General and other research on the environment

4. HEALTH

This area covers research aimed at protecting, promoting and restoring human health. It includes research on specific diseases, health promotion and preventive medicine, all aspects of diagnosis and medical and surgical treatment including the development of new health technologies, the organization and delivery of hospital and home care and other health-related social services, rehabilitation, palliative care, public health, mental health, addiction services, and pediatric and geriatric research. It also includes population health, occupational health, environmental health and the health aspects of nutrition and food hygiene.

- 4.1 Medical research, hospital treatment, surgery
- 4.2 Preventive medicine
- 4.3 Biomedical engineering and medicines
- 4.4 Occupational medicine
- 4.5 Nutrition and food hygiene
- 4.6 Drug abuse and addiction
- 4.7 Social medicine
- 4.8 Hospital structure and organization of medical care
- 4.9 General and other health research

5. PRODUCTION, DISTRIBUTION AND RATIONAL UTILIZATION OF ENERGY

This area covers research into the production, storage, transportation, distribution and rational use of all forms of energy. It also includes research on processes designed to increase the efficiency of energy production and distribution, and the study of energy conservation.

- 5.1 Fossil fuels and their derivatives
- 5.2 Nuclear fission
- 5.3 Radioactive waste management including decommissioning
- 5.4 Nuclear fusion
- 5.5 Renewable energy sources

- 5.6 Rational utilization of energy
- 5.7 General and other research on production, distribution and rational utilization of energy

6. RENEWABLE RESOURCE PRODUCTION AND TECHNOLOGY

This area covers research on agriculture, forestry, fisheries and foodstuff production up to the point of packaging and/or preparation. It includes: research on veterinary medicine, chemical fertilizers, biocides, biological pest control and the mechanization of agriculture; research on animal products, crops, forestry, fishing and fish farming, research on the impact of agricultural, forestry, and fishing activities and on the environment and the economic aspects of resource management and production; research in the field of developing food productivity and technology.

- 6.1 Agriculture
- 6.2 Fisheries and aquaculture
- 6.3 Forestry
- 6.4 General and other research on renewable resource production and technology

7. INDUSTRIAL PRODUCTION AND TECHNOLOGY

This area covers research related to the improvement of industrial production, manufacturing and technology, including economic efficiency and competitiveness. It includes research on information and telecommunication technologies, electronics, mineral processing, chemical products, and the manufacture of vehicles, machinery, instruments, textiles, food and other products except where they form an integral part of the pursuit of other areas (e.g. space, energy, and agriculture).

- 7.1 Increasing economic efficiency and competitiveness
- 7.2 Manufacturing and processing techniques
- 7.3 Extraction and processing of non-energy minerals and derived products, including building materials
- 7.4 Products of the chemical industry
 - 7.4.1 Petrochemical and coal by-products
 - 7.4.2 Pharmaceutical products
- 7.5 Manufacture of motor vehicles and other means of transport
 - 7.5.1 Aerospace equipment manufacturing and repairing
 - 7.5.2 Manufacture of motor vehicles and parts
 - 7.5.3 Manufacture of other modes of transportation
- 7.6 Electronic and related industries
 - 7.6.1 Manufacture of office machinery and data processing equipment
 - 7.6.2 Manufacture of radio, television and communications equipment and apparatus
 - 7.6.3 Software development
- 7.7 Manufacture of electrical machinery and apparatus
- 7.8 Manufacture of non-electronic and non-electrical machinery
- 7.9 Manufacture of instruments
 - 7.9.1 Manufacture of medical and surgical equipment and orthopaedic appliances
- 7.10 Manufacture of food products and beverages
- 7.11 Manufacture of clothing and textiles and leather goods
- 7.12 All other manufacturing products, including wood and paper products
- 7.13 Recycling
- 7.14 General and other research on industrial production and technology

8. SOCIAL STRUCTURES AND RELATIONSHIPS

This area covers research on social structures which have no obvious connection with other areas. This includes management of businesses and organizations, social change

and structures, aboriginal issues, education and training, and cultural activities. This area includes quantitative, qualitative, organizational and forecasting aspects of social problems.

- 8.1 Education, training, recurrent education and retraining
- 8.2 Cultural activities
- 8.3 Management of businesses and institutions
- 8.4 Improvement of working conditions
- 8.5 Social security system
- 8.6 Political structure of society
- 8.7 Social change, social processes and social conflicts
- 8.8 General and other research relating to social structures and relationships

9. EXPLORATION AND EXPLOITATION OF SPACE

This area covers all space research and technology related to activities in, on and from space, including technologies for space exploration and exploitation, scientific exploration of space and particular applications (e.g. telecommunications satellites).

- 9.1 Exploration and understanding of space
- 9.2 Satellites
- 9.3 Launch systems
- 9.4 Space laboratories and space travel
- 9.5 General and other research on the exploration and exploitation of space

10. OTHER RESEARCH

This area covers other research that cannot be classified to one of the above objectives.