NATIONAL SURVEY OF RESEARCH AND EXPERIMENTAL DEVELOPMENT INPUTS 2018/19

CODES

(RF & SEO Codes)



Acknowledgements:

These Codes have been compiled with reference to the Organisation for Economic Cooperation and Development (OECD) Frascati Manual.









APPENDIX A:

RESEARCH FIELD (RF) CLASSIFICATIONS

Please choose the RF classification which most appropriately describes the scientific discipline or field of research you are practising.

DIVISION 1	NATURAL SCIENCES, TECHNOLOGY AND ENGINEERING	
CATEGORY		GROUP
Mathematical Sciences	RF10101 RF10102 RF10103 RF10104 RF10105 RF10199	Pure mathematics Applied mathematics Statistics Biometrics Operations Research Other mathematical sciences not classified elsewhere
Physical Sciences	RF10201 RF10202 RF10203 RF10204 RF10205 RF10206 RF10299	Astronomical sciences Theoretical and condensed matter physics Atomic, molecular, nuclear, particle and plasma physics Acoustic and optical physics Solid State physics Biophysics Other physical sciences not classified elsewhere
Chemical Sciences	RF10301 RF10302 RF10303 RF10304 RF10305 RF10399	Physical chemistry (including theoretical and structural) Inorganic chemistry, nuclear chemistry Organic chemistry Analytical chemistry Speciality Chemicals Other chemical sciences not classified elsewhere
Earth Sciences	RF10401 RF10402 RF10403 RF10404 RF10405 RF10406 RF10407 RF10408 RF10409 RF10410 RF10499	Geology Geophysics Geochemistry Oceanography Hydrology, Water resources Atmospheric sciences Palaeontology Physical Geography Climatic Research Space and Earth Science Other earth sciences not classified elsewhere
Information, Computer & Communication Technologies	RF10501 RF10502 RF10503 RF10504 RF10505 RF10506 RF10507 RF10599	Information systems Hardware Software Current information technology Communication Security system Artificial Intelligence Other information, computer & communication technologies not elsewhere classified

Applied	RF10601	Aerospace technologies and engineering	
Sciences and	RF10602	Manufacturing and process technologies and engineering	
Technologies	RF10603	Nuclear technology	
g	RF10604	Educational technology	
	RF10605	Resource-based industry	
	RF10606	Energy Industry	
	RF10607	Industrial design	
	RF10608	Water technology	
	RF10699	Other applied sciences and technologies not elsewhere classified	
	DE10701	M 1 · 1 1· 1 · 1 · · ·	
Engineering Sciences	RF10701 RF10702	Mechanical and industrial engineering	
sciences	RF10703	Chemical engineering	
	RF10703	Mining and mineral processing	
	RF10704	Civil engineering	
		Electrical and electronic engineering	
	RF10706	Agriculture Engineering	
	RF10707	Food Engineering	
	RF10708	Environmental Engineering	
	RF10709	Nuclear engineering and radiation technology	
	RF10710	Mechanisation and design engineering	
	RF10711	Maritime Technology	
	RF10712	Environmental biotechnology	
	RF10713	Industrial biotechnology	
	RF10714	Medical engineering	
	RF10715	Nano-technology	
	RF10716	Quantity surveying	
	RF10717	Construction Industry and Building	
	RF10799	Other engineering sciences not elsewhere classified	
Biological	RF10801	Biochemistry	
Sciences	RF10802	Genetics and molecular biology	
	RF10803	Microbiology	
	RF10804	Botany	
	RF10805	Zoology	
	RF10806	Ecology	
	RF10807	Genetic engineering	
	RF10808	Biotechnology	
	RF10809	Bioinformatics	
	RF10899	Other biological sciences not elsewhere classified	
Agricultural	RF10901	Soil and water sciences	
Sciences	RF10902	Crop and pasture production (including rice)	
	RF10903	Horticulture (including plantation and fruit crops)	
	RF10904	Animal production	\ L
	RF10905	Veterinary sciences	
	RF10906	Forestry sciences	
	RF10907	Fisheries sciences	
	RF10908	Food and nutrition development	
	RF10909	Aquaculture	
	RF10910	Plant physiology	
	RF10911	Agricultural biotechnology	
	RF10999	Other agricultural sciences not elsewhere classified	



Medical and	RF11001	Immunology
Health Sciences	RF11002	Medical biochemistry and clinical chemistry
	RF11003	Medical microbiology
	RF11004	Pharmacology
	RF11005	Physiology
	RF11006	Neurosciences
	RF11007	Clinical sciences
	RF11008	Public health, environmental & occupational health & safety research
	RF11009	Nutrition (public health research)
	RF11010	Health services research (including bioethics)
	RF11011	Health care system, industries and technologies.
	RF11012	Pharmaceutical industry
	RF11013	Medical biotechnology
	RF11014	Infectious Disease
	RF11099	Other medical and health services not elsewhere classified
Environmental	RF11101	Environmental studies
Sciences	RF11102	Environment technology/industry
	RF11103	Environmental issues and assessment
	RF11104	Environmental management and bioremediation
	RF11199	Other environmental science not elsewhere classified
Material	RF11201	Electronic materials
Sciences	RF11202	Functional materials
	RF11203	Polymeric materials
	RF11204	New materials and technologies
	RF11299	Other material science not elsewhere classified
Marine Sciences	RF11301	Marine biology
	RF11302	Algae biotechnology
	RF11303	Fishing technology
	RF11304	Marine chemistry
	RF11399	Other marine sciences not elsewhere classified



DIVISION 2	SOCIAL SCIENCES AND HUMANITIES	
CATEGORY		GROUP
Social Sciences	RF20101	Accounting
	RF20102	Economics
	RF20103	Management studies
	RF20104	Political sciences and public policy
	RF20105	Architecture and habitat
	RF20106	Sociology
	RF20107	Archaeology and history
	RF20108	Geography
	RF20109	Population studies
	RF20110	Law
	RF20111	Psychology
	RF20112	Education
	RF20113	Media and communications studies
	RF20114	Finance
	RF20115	Anthropology
	RF20116	Transportation studies
	RF20117	Emerging issues
	RF20118	Technology management
	RF20119	Tourism
	RF20199	Other social sciences not elsewhere classified
Humanities	RF20201	Languages and literature
	RF20202	Historical and civilisation studies
	RF20203	Philosophy
	RF20204	Arts and culture
	RF20205	Religious studies
	RF20206	Dances
	RF20207	Music
	RF20299	Other humanities not elsewhere classified



APPENDIX B:

SOCIO-ECONOMIC OBJECTIVE (SEO) CLASSIFICATIONS

Please choose the SEO classification that most appropriately describes the sector of the national economy that will be the main beneficiary of your R&D.

DIVISION 1	DEFENCE		
CATEGORY		GROUP	
Defence	\$10101 \$10102 \$10199	Defence Defence Equipment Other defense not elsewhere classified	

DIVISION 2	ECONOMIC DEVELOPMENT	
CATEGORY		GROUP
Plant Production And Plant Primary Products	\$20101 \$20102 \$20103 \$20104 \$20105 \$20106 \$20199	Field crops Plantation crops Horticultural crops Forestry Primary products from plants By-product utilisation Other plant production and plant primary products not elsewhere classified.
Animal Production and Animal Primary Products	\$20201 \$20202 \$20203 \$20204 \$20299	Livestock Pasture, browse and fodder crops Fisheries products Primary & by-products from animals Other animal production and animal primary products not elsewhere classified
Mineral resources (excluding energy)	\$20301 \$20302 \$20304 \$20399	Exploration Primary mining and extraction processes First stage treatment of ores and minerals Other mineral resources (excluding energy) not elsewhere classified
Energy resources	\$20401 \$20402 \$20403 \$20404 \$20405 \$20499	Exploration Mining and extraction Preparation and supply of energy source materials Non-conventional energy resources Nuclear Energy Other energy resources not elsewhere classified

Energy supply	S20501	Energy transformation	
3, ,	S20502	Renewable energy	
	\$20503	Energy distribution	
	S20504	Conservation and efficiency	
	\$20505	Energy Issues	
	S20599	Other energy supply not elsewhere classified	
	320377	Officer energy supply not eisewhere classified	
Manufacturing	S20601	Processed food products and beverages	
	S20602	Fibre processing and textiles, footwear and leather products	
	S20603	Wood, wood products and paper	
	S20604	Human pharmaceutical products	
	S20605	Veterinary pharmaceutical products	
	S20606	Agricultural chemicals	
	S20607	Industrial chemicals and related products	
	\$20608	Basic metal products (including smelting)	
	\$20609	Industrial mineral products	
	S20610	Fabricated metal products	
	S20610	Transport equipment	
	S20611 S20612	Computer hardware and electronic equipment	
	S20612 S20613		
		Communication equipment	
	S20614	Instrumentation	
	S20615	Machinery and equipment	
	S20616	Latex product industry	
	S20617	Established manufacturing practices supporting technologies	
	S20618	Materials performance and processes/ analysis	
	\$20619	Milling and process materials	
	S20620	Synthesis and design of fine and speciality chemicals	
	S20699	Other manufactured products not elsewhere classified	
Construction	S20701	Planning	
	\$20702	Design	
	S20703	Construction processes	
	S20704	Building management and services	
	S20799	Other construction not elsewhere classified	
	320/ //	Office Construction for eisewhere classified	
Transport	S20801	Ground transport	
	S20802	Water transport	
	S20803	Air & space transport	
	S20899	Other transport not elsewhere classified	
Information and	S20901	Computer software and services	│
Communication	S20901 S20902	· ·	
	\$20902 \$20903	Information services (including library) Communication services	
Services			
	S20999	Other Information and communication services not elsewhere classified	



Commercial Services	\$21001 \$21002 \$21003 \$21004 \$21005 \$21099	Electricity, gas and water services and utilities Waste management and recycling Wholesale and retail trade Finance, property and business services Tourism Other commercial services not elsewhere classified
Economic Framework	\$21101 \$21102 \$21103 \$21104 \$21105 \$21106 \$21107 \$21108 \$21109 \$21199	Macroeconomics issue Microeconomics issues International trade issues Management and productivity issues Measurement standards and calibration services Commercialisation Socio-economic development Economic development and environment Human resource management Other economic issues not elsewhere classified
Natural Resources	\$21201 \$21202 \$21203 \$21204 \$21205 \$21006 \$21299	Soil resources Water resources Biodiversity Bioactive product Industrial raw materials Mineral resource Other natural resources not elsewhere classified

DIVISION 3	SOCIETY	
CATEGORY		GROUP
Health	\$30101 \$30102 \$30103 \$30199	Clinical (organs, diseases and conditions) Public health Health and support services Other health not elsewhere classified
Education and Training	\$30201 \$30202 \$30203 \$30204 \$30205 \$30206 \$30207 \$30208 \$30209 \$30299	Early childhood and primary education Secondary education Tertiary education Technical and further education Special education Computer base teaching and learning Education policy Teaching Educational administration Other education and training not elsewhere classified
Social Development and Community Services	\$30301 \$30302 \$30303 \$30304 \$30305 \$30306 \$30307 \$30399	Community services Public services Art, sport and recreation International relations Ethical issues Nation building Urban issues Other social development and community services not elsewhere classified



DIVISION 4		ENVIRONMENT
CATEGORY		GROUP
Environmental	S40101	Climate and atmosphere
Knowledge	S40102	Ocean
	S40103	Water
	S40104	Land
	S40105	Nature conservation
	S40106	Social environment
	S40107	River
	S40199	Other environmental knowledge not elsewhere classified
Environmental	S40201	Plant production and plant primary products (including forestry)
Aspects of	S40202	Animal production and animal primary products (including fishing)
Development	S40203	Mineral resources (excluding energy)
	S40204	Energy resources
	S40205	Energy supply
	S40206	Manufacturing
	S40207	Construction
	S40208	Transport
	S40209	Information and communication services
	S40210	Commercial services
	S40211	Environmental economic framework
	S40299	Other environment aspect of development not elsewhere classified
Environmental	S40301	Environmental management
Management &	S40302	Waste management and recycling
Other Aspects	S40399	Other environmental aspects not elsewhere classified

DIVISION 5	ADVANCEMENT OF KNOWLEDGE	
CATEGORY	GROUP	
Natural Sciences, Technologies and Engineering	\$50101 \$50102 \$50103 \$50104 \$50105 \$50106 \$50107 \$50108 \$50109 \$50110 \$50111 \$50199	Mathematical sciences Physical sciences Chemical sciences Earth sciences Information, computer and communication technologies Applied sciences and technologies Engineering sciences Biological sciences Agricultural sciences Medical and health sciences Multimedia Other natural science, technologies and engineering not elsewhere classified
Social Sciences and Humanities	\$50201 \$50202 \$50203 \$50299	Social sciences Humanities Cyberlaw Other social sciences and humanities not elsewhere classified













