

Catalogue no. 88-001-X

Science Statistics

Biotechnology Scientific
Activities in Federal
Government Departments
and Agencies, 2006/2007



June 2008 edition



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Statistics Canada
Science, Innovation and Electronic Information Division

Science Statistics

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Published by authority of the Minister responsible for Statistics Canada

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June 2008

Catalogue no. 88-001-X, vol. 32, no. 2

ISSN 1209-1278

Frequency: Irregular

Ottawa

La version française de cette publication est disponible sur demande (n° 88-001-X au catalogue).

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User information

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

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Highlights

Biotechnology scientific activities in federal government departments and agencies, 2006/2007

- Science and technology (S&T) spending on biotechnology was up 1.8% in 2006/2007 to \$880 million, accounting for 9% of total federal S&T expenditures of \$9.7 billion (Table 3).
- Federal S&T data on biotech comprise spending on research and development and related scientific activities for both in-house performers and those outside government, such as business enterprises and higher education sectors. Data also cover spending on full-time equivalent personnel associated with S&T activities.
- At \$602 million, the majority (68%) of federal S&T spending on biotechnology was allocated outside government with the lion's share, or \$481 million, going to the higher education sector. The remaining \$278 million (32%) was allocated to in-house S&T activities in biotechnology (Table 1-2).
- The vast majority (95%) of federal S&T biotech spending, about \$833 million, was dedicated to research and development (Table 1-1).
- A total of 1,929 full-time equivalent personnel were dedicated to federal in-house biotechnology S&T activities in 2006/2007, up 3.3% over the previous year (Table 5-1).
- Of this total, eight out of every 10 full-time equivalents were dedicated to research and development activities (Table 5-1).

Analysis

Biotechnology scientific activities in federal government departments and agencies, 2006/2007

Data on science and technology (S&T) expenditures and full-time equivalent personnel allocated to biotechnology for fiscal year 2006/2007 were collected from selected federal government departments and agencies.

The federal government biotechnology S&T data comprise expenditures on research and development (R&D) and related scientific activities (RSA) for both intramural (in-house) and extramural performers (business enterprises, higher education sector, etc.) and the full-time equivalent personnel associated with S&T activities.

The federal government's S&T expenditures on biotechnology in 2006/2007 reached \$880 million, representing 9% of total federal S&T expenditures of \$9.7 billion (Table 3).

The federal government allocated \$278 million to in-house S&T activities in biotechnology, representing 32% of total federal biotechnology spending. National Research Council Canada and Agriculture and Agri-Food Canada accounted for two-thirds of in-house biotechnology spending with a combined expenditure of \$179 million (Table 1-2).

Extramural performers including business enterprises, higher education sector and Canadian non-profit institutions received \$602 million (68%) of the federal government biotechnology S&T spending in 2006/2007. The higher education sector continued to be the major recipient of these funds, receiving \$481 million (80%) of federal biotechnology extramural S&T spending (Table 1-2).

Canadian Institutes of Health Research (\$340 million), Canada Foundation for Innovation (\$69 million) and the Natural Sciences and Engineering Research Council of Canada (\$66 million), when combined, represent 99% of the federal biotechnology S&T funding provided to the higher education sector in 2006/2007 (Table 1-2).

The vast majority (95%) of federal biotechnology S&T expenditures went towards funding both in-house and extramural research and development (\$833 million) (Table 1-1). The federal government allocated 14% of its R&D expenditures to biotechnology in 2006/2007 (Table 4).

The Canadian Institutes of Health Research (\$345 million), Genome Canada (\$82 million) and Canada Foundation for Innovation (\$69 million) led extramural funding of biotechnology research and development (Table 2-1).

National Research Council Canada (\$110 million) and Agriculture and Agri-Food Canada (\$67 million) represented 72% of the in-house biotechnology research and development expenditures (\$247 million) in 2006/2007 (Table 2-1).

A total of 1,929 full-time equivalent (FTE) federal government personnel were dedicated to biotechnology S&T activities, representing an increase of 3.3% over 2005/2006. Of the total FTE personnel, 1,629 FTE personnel (84%) were dedicated to research and development activities (Table 5-1).

The largest share of federal government personnel in biotechnology activities was scientific and professional personnel at 41% (795 FTE) followed by technicians at 36% (703 FTE) and other at 22% (431 FTE) (Table 5-2).

National Research Council Canada (693 FTE) and Agriculture and Agri-Food Canada (400 FTE) represented the federal government departments with the largest number of FTE personnel involved in biotechnology activities in 2006/2007 (Table 5-2).

Related products

Selected publications from Statistics Canada

88-202-X	Industrial Research and Development: Intentions
88-204-X	Federal Scientific Activities
88-221-X	Gross Domestic Expenditures on Research and Development in Canada and the Provinces
88-522-X	Science and Technology Activities and Impacts: A Framework for a Statistical Information
88F0006X	Science, Innovation and Electronic Information Division Working Papers
88F0017M	Science, Innovation and Electronic Information Division Research Papers

Selected CANSIM tables from Statistics Canada

358-0001	Gross domestic expenditures on research and development, by science type and by funder and performer sector, annual
358-0024	Business enterprise research and development (BERD) characteristics, by industry group based on the North American Industry Classification System (NAICS), annual
358-0026	Intellectual property management, by federal departments and agencies indicators, annual

Selected surveys from Statistics Canada

4201	Research and Development in Canadian Industry
4204	Research and Development of Canadian Private Non-Profit Organizations
4208	Provincial Research Organizations (PRO)
4209	Provincial Government Activities in the Natural Sciences
4210	Provincial Government Activities in the Social Sciences
4212	Federal Science Expenditures and Personnel, Activities in the Social Sciences and Natural Sciences
5109	Higher Education Research and Development Estimates

Selected summary tables from Statistics Canada

- *Research and development performed by the business enterprise sector*
- *Domestic spending on research and development (GERD), funding sector, by province*
- *Domestic spending on research and development (GERD), performing sector, by province*
- *Domestic spending on research and development (GERD)*

Statistical tables

Table 1-1
Federal government science and technology expenditures on biotechnology — Activity and performer

	Intramural	Business enterprise	Higher education	Other performers ¹	Foreign performers	Total
thousands of dollars						
2006/2007						
Total	277,830	24,507	481,398	88,787	7,565	880,087
Research and development	246,746	23,697	467,216	88,457	7,041	833,157
Related scientific activities	31,084	810	14,182	330	524	46,930
2005/2006^r						
Total	277,264	16,702	468,595	96,895	5,374	864,830
Research and development	248,128	16,169	456,824	96,748	4,903	822,772
Related scientific activities	29,136	533	11,771	147	471	42,058
2004/2005						
Total	274,868	34,043	402,621	87,992	4,637	804,161
Research and development	250,248	33,467	393,321	86,837	4,123	767,996
Related scientific activities	24,620	576	9,300	1,155	514	36,165
2003/2004						
Total	255,996	27,361	379,116	88,656	5,110	756,239
Research and development	234,891	26,038	370,359	87,412	4,591	723,291
Related scientific activities	21,105	1,323	8,757	1,244	519	32,948
2002/2003						
Total	246,346	31,352	340,096	57,798	4,810	680,402
Research and development	228,100	30,056	332,745	56,819	4,294	652,014
Related scientific activities	18,246	1,296	7,351	979	516	28,388

1. "Other performers" includes Canadian non-profit institutions and provincial and municipal governments.

Table 1-2
Federal government science and technology expenditures on biotechnology — Department or agency and by performer, 2006/2007

	Intramural	Business enterprise	Higher education	Other performers ¹	Foreign performers	Total
thousands of dollars						
Total	277,830	24,507	481,398	88,787	7,565	880,087
Agriculture and Agri-Food Canada	67,073	0	0	0	0	67,073
Canada Foundation for Innovation	1,538	0	69,087	0	0	70,625
Canadian Food Inspection Agency	15,974	79	203	0	0	16,256
Canadian Institutes of Health Research	20,468	0	339,643	7,063	4,327	371,501
Environment Canada	416	308	300	0	0	1,024
Fisheries and Oceans Canada	3,724	0	50	0	0	3,774
Genome Canada	2,508	0	0	81,514	0	84,022
Health Canada	13,617	21	3	57	103	13,801
Industry Canada	10,510	13,074	0	0	0	23,584
National Defence	12,169	1,438	1,288	0	569	15,464
National Research Council Canada	112,264	7,200	0	0	1,500	120,964
Natural Resources Canada	8,671	1,721	558	78	28	11,056
Natural Sciences and Engineering Research Council of Canada	3,447	597	65,915	0	998	70,957
Public Health Agency of Canada	5,126	69	38	75	0	5,308
Social Sciences and Humanities Research Council of Canada	325	0	4,313	0	40	4,678

1. "Other performers" includes Canadian non-profit institutions and provincial and municipal governments.

**Table 1-3
Federal government science and technology expenditures on biotechnology — Department or agency**

	2002/2003	2003/2004	2004/2005	2005/2006 [†]	2006/2007
thousands of dollars					
Total	680,402	756,239	804,161	864,830	880,087
Agriculture and Agri-Food Canada	63,936	63,936	67,073	67,073	67,073
Canada Foundation for Innovation	82,700	78,261	71,005	109,697	70,625
Canadian Food Inspection Agency	11,686	12,265	12,399	16,109	16,256
Canadian Institutes of Health Research	232,291	271,135	299,230	323,930	371,501
Environment Canada	1,748	1,747	1,933	1,511	1,024
Fisheries and Oceans Canada	3,663	2,916	3,860	3,860	3,774
Genome Canada	50,013	80,701	82,663	91,108	84,022
Health Canada	14,369	14,592	10,665	14,186	13,801
Industry Canada	27,247	23,630	31,813	19,516	23,584
National Defence	8,612	13,850	13,453	13,203	15,464
National Research Council Canada	124,772	121,389	134,319	122,728	120,964
Natural Resources Canada	6,110	8,537	8,173	8,383	11,056
Natural Sciences and Engineering Research Council of Canada	50,339	59,204	63,143	67,867	70,957
Public Health Agency of Canada	0	0	610	1,018	5,308
Social Sciences and Humanities Research Council of Canada	2,916	4,076	3,822	4,641	4,678

**Table 2-1
Federal government expenditures on biotechnology research and development activities — Department or agency and by performer, 2006/2007**

	Intramural	Business enterprise	Higher education	Other performers ¹	Foreign performers	Total
thousands of dollars						
Total	246,746	23,697	467,216	88,457	7,041	833,157
Agriculture and Agri-Food Canada	67,073	0	0	0	0	67,073
Canada Foundation for Innovation	1,538	0	69,087	0	0	70,625
Canadian Food Inspection Agency	9,808	79	203	0	0	10,090
Canadian Institutes of Health Research	20,120	0	333,869	6,943	4,327	365,259
Environment Canada	329	0	50	0	0	379
Fisheries and Oceans Canada	3,013	0	50	0	0	3,063
Genome Canada	2,508	0	0	81,514	0	84,022
Health Canada	6,824	21	3	0	25	6,873
Industry Canada	0	13,074	0	0	0	13,074
National Defence	11,772	1,438	1,288	0	569	15,067
National Research Council Canada	109,745	7,200	0	0	1,500	118,445
Natural Resources Canada	7,039	1,553	558	0	0	9,150
Natural Sciences and Engineering Research Council of Canada	3,024	332	58,252	0	620	62,228
Public Health Agency of Canada	3,661	0	20	0	0	3,681
Social Sciences and Humanities Research Council of Canada	292	0	3,836	0	0	4,128

1. "Other performers" includes Canadian non-profit institutions and provincial and municipal governments.

Table 2-2
Federal government expenditures on biotechnology research and development activities — Department or agency

	2002/2003	2003/2004	2004/2005	2005/2006 [†]	2006/2007
	thousands of dollars				
Total	652,014	723,291	767,996	822,772	833,157
Agriculture and Agri-Food Canada	63,936	63,936	67,073	67,073	67,073
Canada Foundation for Innovation	82,700	78,261	71,005	109,697	70,625
Canadian Food Inspection Agency	8,517	8,378	7,857	9,968	10,090
Canadian Institutes of Health Research	229,448	268,290	296,378	319,719	365,259
Environment Canada	1,223	962	1,357	873	379
Fisheries and Oceans Canada	2,924	2,320	3,360	3,360	3,063
Genome Canada	50,013	80,701	82,663	91,108	84,022
Health Canada	6,711	7,462	5,557	7,988	6,873
Industry Canada	21,658	17,305	22,001	8,167	13,074
National Defence	8,150	13,780	13,316	13,178	15,067
National Research Council Canada	124,072	118,819	131,183	120,561	118,445
Natural Resources Canada	5,181	7,238	7,210	7,702	9,150
Natural Sciences and Engineering Research Council of Canada	44,922	52,277	55,755	59,269	62,228
Public Health Agency of Canada	0	0	0	0	3,681
Social Sciences and Humanities Research Council of Canada	2,559	3,562	3,281	4,109	4,128

Table 3
Comparison of federal government in science and technology expenditures and biotechnology science and technology expenditures by department or agency, 2006/2007

	Total science and technology expenditures ¹	Biotechnology science and technology expenditures	Biotechnology science and technology expenditures as a percentage of total science and technology expenditures
	thousands of dollars		percent
Total	9,662,046	880,087	9
Agriculture and Agri-Food Canada	391,492	67,073	17
Canada Foundation for Innovation	411,632	70,625	17
Canadian Food Inspection Agency	51,377	16,256	32
Canadian Institutes of Health Research	870,641	371,501	43
Environment Canada	604,605	1,024	0
Fisheries and Oceans Canada	272,208	3,774	1
Genome Canada	88,022	84,022	95
Health Canada	330,122	13,801	4
Industry Canada	452,482	23,584	5
National Defence	438,867	15,464	4
National Research Council Canada	773,921	120,964	16
Natural Resources Canada	530,233	11,056	2
Natural Sciences and Engineering Research Council of Canada	909,236	70,957	8
Public Health Agency of Canada	64,700	5,308	8
Social Sciences and Humanities Research Council of Canada	630,576	4,678	1
Other	2,841,932

1. Federal science expenditures and personnel 2007/2008 survey.

Table 4
Comparison of federal government research and development expenditures and biotechnology research and development expenditures by department or agency, 2006/2007

	Total research and development expenditures ¹	Biotechnology research and development expenditures	Biotechnology research and development expenditures as a percentage of total research and development expenditures
	thousands of dollars		percent
Total	6,062,050	833,157	14
Agriculture and Agri-Food Canada	363,819	67,073	18
Canada Foundation for Innovation	411,632	70,625	17
Canadian Food Inspection Agency	19,587	10,090	52
Canadian Institutes of Health Research	856,011	365,259	43
Environment Canada	219,925	379	0
Fisheries and Oceans Canada	73,407	3,063	4
Genome Canada	88,022	84,022	95
Health Canada	62,613	6,873	11
Industry Canada	380,582	13,074	3
National Defence	354,769	15,067	4
National Research Council Canada	705,698	118,445	17
Natural Resources Canada	273,805	9,150	3
Natural Sciences and Engineering Research Council of Canada	797,702	62,228	8
Public Health Agency of Canada	35,514	3,681	10
Social Sciences and Humanities Research Council of Canada	521,701	4,128	1
Other	897,263

1. Federal science expenditures and personnel 2007/2008 survey.

Table 5-1
Federal government personnel engaged in biotechnology science and technology activities — Category

	Research and development	Related scientific activities	Administration of research and development	Administration of related scientific activities	Total
	number				
2006/2007					
Total	1,415	293	214	7	1,929
Scientific and professional (includes executive)	570	169	54	2	795
Technical	623	76	4	0	703
Other ¹	222	48	156	5	431
2005/2006 r					
Total	1,326	296	237	9	1,868
Scientific and professional (includes executive)	561	173	47	4	785
Technical	544	92	5	0	641
Other ¹	221	31	185	5	442
2004/2005					
Total	1,316	262	205	9	1,792
Scientific and professional (includes executive)	505	159	38	4	706
Technical	577	69	12	0	658
Other ¹	234	34	155	5	428
2003/2004					
Total	1,368	271	186	15	1,840
Scientific and professional (includes executive)	535	161	46	9	751
Technical	616	73	4	0	693
Other ¹	217	37	136	6	396
2002/2003					
Total	1,468	232	141	5	1,846
Scientific and professional (includes executive)	579	140	30	3	752
Technical	660	64	4	0	728
Other ¹	229	28	107	2	366

1. Includes administrative and foreign service, administrative support, operational and military personnel.

Note(s): Personnel counts are reported as full-time equivalents.

Table 5-2**Federal government personnel engaged in biotechnology science and technology activities — Department or agency and by category, 2006/2007**

	Scientific and professional	Technical	Other ¹	Total
	number			
Total	795	703	431	1,929
Agriculture and Agri-Food Canada	160	160	80	400
Canada Foundation for Innovation	1	1	1	3
Canadian Food Inspection Agency	56	98	11	165
Canadian Institutes of Health Research	26	0	142	168
Environment Canada	11	2	0	13
Fisheries and Oceans Canada	24	37	2	63
Genome Canada	12	3	2	17
Health Canada	64	48	8	120
Industry Canada	63	0	34	97
National Defence	31	27	1	59
National Research Council Canada	275	287	131	693
Natural Resources Canada	40	25	2	67
Natural Sciences and Engineering Research Council of Canada	15	0	10	25
Public Health Agency of Canada	17	15	4	36
Social Sciences and Humanities Research Council of Canada	0	0	3	3

1. Includes administrative and foreign service, administrative support, operational and military personnel.

Note(s): Personnel counts are reported as full-time equivalents.

Table 6**Federal government personnel engaged in biotechnology research and development activities by department or agency and by category, 2006/2007**

	Scientific and professional	Technical	Other ¹	Total
	number			
Total	624	627	378	1,629
Agriculture and Agri-Food Canada	160	160	80	400
Canada Foundation for Innovation	1	1	1	3
Canadian Food Inspection Agency	30	40	5	75
Canadian Institutes of Health Research	26	0	139	165
Environment Canada	6	1	0	7
Fisheries and Oceans Canada	18	37	1	56
Genome Canada	12	3	2	17
Health Canada	28	47	2	77
Industry Canada	1	0	1	2
National Defence	28	27	1	56
National Research Council Canada	256	273	130	659
Natural Resources Canada	31	23	1	55
Natural Sciences and Engineering Research Council of Canada	13	0	9	22
Public Health Agency of Canada	14	15	4	33
Social Sciences and Humanities Research Council of Canada	0	0	2	2

1. Includes administrative and foreign service, administrative support, operational and military personnel.

Note(s): Personnel counts are reported as full-time equivalents.

Table 7
Comparison of federal government in science and technology personnel and biotechnology science and technology personnel by department or agency, 2006/2007

	Total science and technology personnel ¹	Biotechnology science and technology personnel	Biotechnology personnel in science and technology as a percentage of total science and technology personnel
	number		percent
Total	36,026	1,929	5
Agriculture and Agri-Food Canada	2,297	400	17
Canada Foundation for Innovation	52	3	6
Canadian Food Inspection Agency	477	165	35
Canadian Institutes of Health Research	362	168	46
Environment Canada	3,576	13	0
Fisheries and Oceans Canada	1,800	63	4
Genome Canada	18	17	94
Health Canada	2,770	120	4
Industry Canada	962	97	10
National Defence	1,907	59	3
National Research Council Canada	4,033	693	17
Natural Resources Canada	3,184	67	2
Natural Sciences and Engineering Research Council of Canada	313	25	8
Public Health Agency of Canada	448	36	8
Social Sciences and Humanities Research Council of Canada	183	3	2
Other	13,644

1. Federal science expenditures and personnel 2007/2008 survey.

Note(s): Personnel counts are reported as full-time equivalents.

Table 8
Comparison of federal government research and development personnel and biotechnology research and development personnel by department or agency, 2006/2007

	Total ¹ research and development personnel	Biotechnology research and development personnel	Biotechnology personnel in research and development as a percentage of total research and development personnel
	number		percent
Total	15,274	1,629	11
Agriculture and Agri-Food Canada	2,142	400	19
Canada Foundation for Innovation	52	3	6
Canadian Food Inspection Agency	131	75	57
Canadian Institutes of Health Research	356	165	46
Environment Canada	1,000	7	1
Fisheries and Oceans Canada	497	56	11
Genome Canada	18	17	94
Health Canada	422	77	18
Industry Canada	362	2	1
National Defence	1,585	56	4
National Research Council Canada	3,593	659	18
Natural Resources Canada	1,640	55	3
Natural Sciences and Engineering Research Council of Canada	274	22	8
Public Health Agency of Canada	228	33	14
Social Sciences and Humanities Research Council of Canada	125	2	2
Other	2,849

1. Federal science expenditures and personnel 2007/2008 survey.

Note(s): Personnel counts are reported as full-time equivalents.

Data quality, concepts and methodology

Definitions

Biotechnology

The application of science & technology (S&T) to living organisms as well as parts, products and models thereof, to alter living or non-living materials for the production of knowledge, goods and services.

Natural sciences and engineering

The natural sciences and engineering (NSE) field embraces the disciplines of study concerned with understanding, exploring, developing or utilizing the natural world. Included are the engineering, mathematical, life and physical sciences.

Social sciences and humanities

The social sciences and humanities (SSH) field embraces all disciplines involving the study of human actions and conditions and the social, economic and institutional mechanisms affecting humans. Included are such disciplines as anthropology, business administration and commerce, information and knowledge management, criminology, demography, economics, geography, history, languages, literature and linguistics, law, library science, philosophy, political science, psychology, religious studies, social work, sociology, and urban and regional studies.

Scientific research and experimental development (R&D)

Creative work undertaken on a systematic basis in order to increase the stock of scientific and technical knowledge and to use this knowledge in new applications.

The central characteristic of R&D is an appreciable element of novelty and of uncertainty. New knowledge, products or processes are sought. The work is normally performed by, or under the supervision of, persons with postgraduate degrees in the natural sciences or engineering.

An R&D project generally has three characteristics:

- a substantial element of uncertainty, novelty and innovation;
- a well-defined project design;
- a report on the procedures and results of the projects.

Related scientific activities (RSA)

Those activities which complement and extend R&D by contributing to the generation, dissemination and application of scientific and technological knowledge.

Intramural performance

Where the S&T activities are managed and carried out primarily by federal government employees they are classified as intramural S&T. Even where major components of the project are provided by outside agencies, such as computer

services, laboratory construction, testing of prototype equipment, if the planning, supervision, reporting, and key operating functions are performed by federal personnel, then the activity is considered to be intramural. This also applies to S&T activities carried out by a department or agency on behalf of another federal department or agency on a cost recovery basis.

The intramural expenditures reported for scientific activities are those direct costs, including salaries, associated with scientific programs. These costs include that portion of a program's contribution to employee benefit plans (e.g., superannuation) which is applicable to the scientific personnel within the program. Non-program ("indirect") costs such as the value of services provided by other departments without charge and accommodation provided by the reporting program are to be excluded.

Administration of extramural programs

The costs of identifiable units engaged in the administration of contracts and grants and contributions for scientific activities that are to be performed outside the Federal Government. These expenditures are broken down by the type of scientific activity supported, i.e., R&D or RSA.

Extramural performance

Groups being funded for S&T activities by the federal government sector. These include:

Business enterprise

This sector is composed of business and government enterprises, including public utilities and government owned firms. Incorporated consultants providing scientific and engineering services are also included. Industrial research institutes located at Canadian universities are considered to be in the university sector.

Higher education

This sector is composed of all universities, colleges of technology and other institutes of post-secondary education, whatever their source of finance or legal status. It also includes all research institutes, experimental stations and clinics operating under the direct control of, or administered by, or associated with, the higher education establishments.

Canadian non-profit institutions

Charitable foundations, voluntary health organizations, scientific and professional societies, and other organizations not established to earn profits comprise this sector. Canadian non-profit institutions primarily serving or controlled by another sector should be included in the controlling sector.

Provincial and municipal governments

Departments and agencies of these governments form this sector. Government enterprises, such as provincial utilities are included in the "Business enterprise" sector, and hospitals in the Canadian non-profit institutions.

Foreign performers

All foreign government agencies, foreign companies (including foreign subsidiaries of Canadian firms), international organizations, non-resident foreign nationals and Canadians studying or teaching abroad, are included in this sector.

Other performers

This sector includes all individuals or organizations not belonging to any of the above sectors. In particular, it includes provincial research councils.

Personnel

Intramural expenditure data should be supported by data on the personnel devoted to scientific activities by all the employees engaged in these activities.

Scientific and professional

People in jobs that require at least one academic degree or nationally recognized professional qualification (e.g., Professional Engineer P.Eng.), as well as those with equivalent experience.

Technical

People in jobs that require specialized vocational or technical training beyond the secondary level (e.g., community colleges and technical institutes) as well as those with experience equivalent to this training.

Other

Clerical, secretarial, administrative, operational and other support personnel.

In regard to personnel resources there are two caveats:

- where the S&T activities are a part of the program being reported, only the auxiliary staff relevant to the S&T activities are reported on a prorated basis;
- whenever financial and administrative support is provided from another program, that support is allocated to the S&T resources for the program being reported.

Full-time equivalent (FTE)

A measure of the time actually devoted to the conduct of scientific activities. An employee who is engaged in scientific activities for a half a year has a full-time equivalence of 0.5. Personnel data reported should be consistent with expenditure data.