

Research and Development in Canadian Industry, 2001 **Industrial Non-profit Organizations**

	Reporting organization name and address		
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		Si en	vous préférez ce questionnaire français veuillez cocher
	Please correct any mistakes in name or address	٦	⊕
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Note: This form has been designed for use by industrial research institutes, industrial associations and similar organizations performing or funding, R&D on behalf of Canadian industry.

INFORMATION FOR RESPONDENTS

Survey objective

This survey collects data which are essential to assure the availability of pertinent statistical information to monitor science and technology related activities in Canada and to support the development of science and technology policy. Your data will be used for instance, to plan and evaluate research and development (R&D) incentive programs, to provide indicators on the state of industrial innovation, and to complete national totals for The results of this survey will be published in "Industrial Research and Development" (Cat. No. scientific R&D expenditures and personnel. 88-202-XIB) and "Science Statistics" (Cat. No. 88-001-XIB).

Authority

This survey is conducted under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Legal requirement

Organizations are required to provide this information.

Statistics Canada is prohibited from publishing any statistics which would divulge information relating to any identifiable organization without the previous written consent of that organization. The data reported on this questionnaire will be treated in strict confidence, used for statistical purposes and published in aggregated form only.

Federal-Provincial Agreement

In order to avoid duplication of enquiry, to reduce the cost of data collection and to provide consistent statistics, an agreement has been made with the Institut de la Statistique du Québec, under Section 11 of the Statistics Act, Statutes of Canada, where data on organizations located or having R&D activities in Québec will be transmitted to the Institut de la Statistique du Québec. The Statistics Act of Québec includes the same provisions for confidentiality and penalties for disclosure of information as the Canada Statistics Act.

Reporting period

This questionnaire should be completed for the fiscal year ending in 2001.

Reporting procedure

If the organization is basically devoted to R&D then consider the entire budget, including administration, and exclude only clearly distinguished non-R&D activities. Examples of such non-R&D activities might be the collection and dissemination of market and other economic information to members, the organization of conferences and training courses, grants to support trade fairs, or the operation of laboratories used only for testing and quality control. If R&D is only a minor part of the activities of this organization, then report only those expenditures and personnel associated with the

lease return the completed questionnaire within 30 days of receipt.

If you are unable to do so, please inform us of the expected completion date. If you receive more than one copy of this survey questionnaire for the same organization, please complete one and attach and return the duplicate(s). If you require assistance in the completion of this questionnaire or have any questions regarding the survey please address all enquiries to:

Science and Innovation Surveys Section Science, Innovation and Electronic Information Division Statistics/Canada Ottawa, Ontario

Telephone (613) 951-9662 (call collect)

FAX (613) 951-9920

R&D Definition

K1A 076

Research and development is systematic investigation carried out in the natural and engineering sciences by means of experiment or analysis to achieve a scientific or technological advance.

Research is original investigation undertaken on a systematic basis to gain new knowledge.

Development is the application of research findings or other scientific knowledge for the creation of new or significantly improved products or processes. If successful, development will usually result in devices or processes which represent an improvement in the "state of the art" and are likely to be patentable.

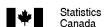
R&D as used in this survey, should be considered to be "Scientific Research and Experimental Development" as defined in Section 37 Regulation 2900 of the Income Tax Regulations.

Note: Although the definition of "Scientific Research and Experimental Development" is considered to be the same as R&D, certain expenditures for scientific research cannot be claimed for income tax purposes (e.g. land and buildings). All expenditures attributable to R&D are to be included in this survey

		CERTIF	ICATION		
Name of person who completed this report (please pri	int):		Business address:		
Official position:	Date:		Postal code:	Telephone No.	Extension
Internet address:		GST No.	. (BN No.)	Fax No.	

Statistique

Canada





INSTRUCTION GUIDE

Generally speaking, industrial R&D is intended to result in an invention which may subsequently become a technological innovation. An essential requirement is that the outcome of the work is uncertain, i.e., that the attainment of a given technical objective cannot be known in advance on the basis of current knowledge or experience. Hence much of the work done by scientists and engineers is not R&D since they are primarily engaged in "routine" production, engineering, quality control testing. Although they apply scientific or engineering principles their work is not directed towards the discovery of new knowledge or the development of new products and processes. However, work elements which are not considered R&D by themselves but which directly support R&D projects, should be included with R&D in these cases. Examples of such work elements are design and engineering, shop work, computer programming, and secretarial work.

R&D Alliance – Agreement where two or more firms or organizations engage in a joint R&D project.

Full-Time Equivalent (FTE) – R&D may be carried out by persons who work solely on R&D projects or by persons who devote only part of their time to R&D, and the balance to other activities such as testing, quality control and production engineering. To arrive at the total effort devoted to R&D in terms of manpower, it is necessary to estimate the full-time equivalent of these persons working only part-time in R&D.

TE = Number of persons who work solely on R&D projects + the estimate of time of persons working only part of their time on R&D.

Example calculation: If out of five scientists engaged in R&D work, one works solely on R&D projects and the remaining four devote only one quarter of their working time to R&D, then: FTE = 1 + 1/4 + 1/4 + 1/4 + 1/4 + 2 scientists.

Supporting Staff

Technicians and technologists – Technically trained personnel who assists scientists and engineers in R&D, e.g. chemical technicians, draftspersons. They may be certified by either provincial educational authorities or by provincial or national scientific or engineering associations.

Others – Personnel directly engaged in the R&D program, e.g. machinists and electricians in construction of prototypes, or clerks, typists, accountants and storekeepers engaged in the administration or clerical support of R&D units.

Software Development – Software refers to the encoded instructions executed by electronic devices including computers for performing operations and functions. See Revenue Canada's Information Circular 97-1 "Administrative Guidelines for Software Development".

Biotechnology – Biotechnology is defined as "The application of 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." Eg. DNA genomics, pharmaco-genetics gene probes, DNA sequencing/synthesis/amplification, genetic engineering. Protein/peptide sequencing/synthesis, lipid/protein engineering, proteomics, hormones and growth factors, cell receptors/signalling/pheromones. Cell & tissue culture, tissue engineering, hybridisation, cellular fusion, vaccine/immune stimulants, embryo manipulation, bioreactors, fermentation, bioprocessing, bioleaching, bio-bleaching, bio-b

Environmental Protection – Environmental protection is defined as the field of work devoted to the reduction or elimination of pollutants and wastes (including prevention, treatment and reuse of pollutants and wastes, and reduction of material and energy use). Expenditures made in order to improve employee health and workplace safety are excluded.

Environmental benefits – Environmental benefits include potential energy savings and the reduction in raw materials use or waste generation either from increased efficiency, recycling or closed-loop systems. They can also include design changes resulting in products that are less damaging to the environment in their use or disposal.

R&D in advanced materials – R&D in advanced materials is defined as the systematic investigation carried out in the natural and engineering sciences by means of experiment or analysis in order to gain new knowledge and create new or significantly improved products or processes which use advanced materials such as metals (including superalloys or high purity metals), ceramics and carbon (including optoelectronics such as optical fibres and carbon and graphite products) and polymers (including high performance reinforced plastics and other high performance polymers).

				GENE	ERAL DA	TA (questio	ns 1 and 2					
ORGANIZATION'S F b) In the fiscal year end or firms?	ding in	n 2001,	, did your	organizati		ge in R&D al	liances w	month da	TO ay rganizatio	\	1	nth day
2. TOTAL EXPENDITURES	S OF 1	гніѕ о	RGANIZA	ATION IN 2	001 (thou	sands of do	ollars)					
			/	DATA ON	R&D PER	FORMED (c	uestions	3 to 6)		,		
3. PERSONNEL OF THIS	ORGA	NIZAT							nded nui	mbers only)		
			> < /		Prof	fessionals				Supporti	ng Staff*	Total
			Scientists :	and engineer	'S		Senior R&D	administrato	rs	Technicians		Total R&D
<u> </u>	Bac	helors	Masters	Doctors	Total	Bachelors	Masters	Doctors	Total	and technologists	Other	personnel
a) In 2001	082		083	084		085	086	087		088	089	**
b) Planned for 2002	182	\sum	183	184		185	186	187		188	189	
* See "Instruction Guide	" abov	e.								A	erage wage	s and salaries

Divide wages and salaries for 2001 (Question 4(b)) by total R&D personnel.

If the average R&D wages and salaries do not seem reasonable, please review the data. (thousands of dollars)

Average	wages	and	salaries

4. EXPENDÎT⊎RES FOR R&D PERFORMED WITHIN THIS ORGANIZATION IN CANADA (thousands of dollars)

	CUR	RENT EXPENDIT	URES					
	Wages and salaries*	Other current costs**	Total current	Land	Building	Equipment and Other	Total capital	Total
				(\$0	00)			
a) Made in 2000	001	002		009	010	011		
b) Made in 2001	003	004		012	013	014		
c) Planned for 2002	005	006		015	016	017		
d) Forecast for 2003	007	008		018	019	020		

e) If applicable, please estimate the percentage of total R&D expenditures (reported above for 2001) attributable to software development***.....

309 %

If applicable, please estimate the percentage of total R&D expenditures (reported above for 2001) attributable to biotechnology**

535 Yes		or	No	
	. 1			

h) Are there important potential environmental benefits related to the R&D reported for 2001 (apart from any R&D reported in question 6g)?*** i) If applicable, please estimate the percentage of total R&D expenditures (reported above for 2001) attributable to ac

dvanced	537	%
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Include fringe benefits of persons engaged in R&D.

Include contracts for services required to carry out R&D (e.g. contracts awarded for drilling needed for heavy oil R&D). Exclude contracts for R&D work itself which should be reported in question 7. **Exclude capital depreciation.**

Page 2

EGIONAL INFORMATION ON R&D IN 2001 (Expenditures should be report			_,		
	R&D e	expenditures		R&D pers	sonnel
Region where R&D was performed	Current	Capital	Profess	ionnals	Supporting
	16	.000)	/E.J	I-time equ	staff
	(4	5000)	(Full	i-time eq	uivaieiii)
Specify province:			#		
Proping Province:					
Specify province:			+ -		
Specify province:			#		
otal (Equal to 2001 expenditures and personnel reported in Question 4 b) and 3 a))					
. "				•	
OURCES OF FUNDS FOR R&D PERFORMED <u>WITHIN</u> THIS ORGANIZATIO	N IN 2001 (thousar				
			adian		Canadian
			irces		ources
This organization (i.e. interest and other income)		021		022	
Member companies (annual fees, sustaining grants)					
Name of companies (Please print full legal name and attach additional she	et if necessary)				
				T	
325		335		345	
326		336		346	
327		337		347	
				1	
328		338		348	
329		339		349	
330		340		350	
204		241		254	
331		341	^	351	\rightarrow
332		342		352	<u> </u>
333		343		353	/
334		344		354	
			\leftarrow		
Sub-total (b)		023		024	
Companies (R&D contract work)					
		\			
Name of companies (Please print full legal name and attach additional she	eet if necessary)				
355		365		375	
		- 			
356		366		376	
357		367		377	
358		368		378	
359	<u> </u>	369		379	
360		370		380	
361		371		381	
		372		382	
362				362	
363		373		383	
364		374		384	
(C) t 4451 (A)		028		029	
Sub-total (c)		020		023	
Canadian Federal Government through: (i) R&D grants and the R&D portion only of any other grants					
(i) R&D grants and the R&D portion only of any other grants					
Industry Canada: (specify)		166			
madely duration (opensy)		400		_	
National Research Council: Industrial Research Assistance Program		163			
Other grant programs: (specify)				_	
(specify)					
		027		1	
Sub-total (d i)					
(ii) R&D contracts and the R&D portion only of any other contracts					
Contracting departments (Payments are often made through Public V	Norks and Governm	nent			
Services Canada for other departments; please specify contracting departments	artment)				
>				1	
Sub-total (d ii)		026			
Provincial governments (i.e. grants and contracts. Attach additional sheet if	necessarv).				
1. 1. J. 1.	· · · · · · · · · · · //·				
Specify province and the program					
Sub-total (e)		291			
Sub-total (e)					
Universities (specify):		385		386	
Universities (specify):					
Others (specify):		387		388	
Sub-total (f and g)		030		031	
Sub-totals (a to g)					
Total (equal to the 2001 expenditures of Question (4 b))		<u> </u>	I		4
rotar (equal to the 2001 experiultires of Question (4 D))		~			⊸ ¹

7. PA	DATA ON PAYMENTS FOR R&D (questions 7 and 8) YMENTS FOR R&D PERFORMED BY OTHER ORGANIZATIONS (thousands of dollars)			038	
,	Made in 2000			039	
b)	Made in 2001			040	
,	Planned for 2002			041	
d)	Forecast for 2003				
	CIPIENTS OF PAYMENTS FOR R&D PERFORMED IN 2001 BY OTHER ORGANIZATIONS (thou	sands of do	llars)		
a)	Companies	In			Outside
	Name of companies (Please print full legal name and attach additional sheet if necessary)	Cana			Canada
	420	430 431		440 441	
	422	432		441	
	423	433		443	
	424	434		444	
	425	435		445	
	427	436 437		446 447	
	428	438		448	
	429	439		449	
	Sub-total (a)	046		047	
b)	Universities (Please print full name and attach additional sheet if necessary)	_			
	490	500		510	
	491	501		511	
	493	502 503		512 513	\longrightarrow
	494	504		514	
	Sub-total (b)	055		056	
c)	Other (Please print full name and attach additional sheet if necessary)				
		529		530	
	Sub-totals (a to c)				
			П		4
	Total (equal to figure entered in 7 (b))	0)(()			
0 DA	DATA ON OTHER PAYMENTS MADE OR RECEIVED FOR TECHNOLO		on 9)		
LIC	NYMENTS MADE OR RECEIVED IN 2001 BY THIS ORGANIZATION FOR PATENTS (SALE/P CENSING), KNOW-HOW (UNPATENTED), INVENTIONS, TRADEMARKS (INCLUDING FRAN	NCHISING),	In		Outside
	ATTERNS, DESIGN, AND R&D TECHNICAL ASSISTANCE (thousands of dollars)		Cana	ida	Canada 104
a)	Payments		1.02		104
b)	Receipts		102		104
b)	Receipts DATA ON ENERGY P&D (question 10)		102		104
,	DATA ON ENERGY R&D (question 10)		102		104
,		green) ques			104
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10. IN	DATA ON ENERGY R&D (question 10) 2001, DID THIS REPORTING UNIT PERFORM OR FUND ANY ENERGY R&D? Yes ► Please complete the enclosed "Energy R&D expenditures by area of technology" (No ► Please complete certification on page 2 and return questionnaires.	- , ,	tionnaire		
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Please consider new to mean totally or essentially new/unknown to the personnel of your R&D establishment. The product, process or service may exist elsewhere in the world but your R&D is not aided by this fact since your personnel do not have access to the information necessary to avoid any of the normal risks of development. Existing would mean that your staff would be improving a product/process/service about which they have the basic information - the product/process/service need not already be provided by your company.

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The results of this survey will be published in "Industrial Research and Development" (Cat. No. 88-202-XIB) and "Science Statistics" (Cat. No. 88-001-XIB).

http://www.statcan.ca/english/IPS/Data/88-202-XIB.htm http://www.statcan.ca/english/IPS/Data/88-001-XIB.htm

THANK YOU FOR YOUR CO-OPERATION

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