Science, Innovation and Electronic Information Division



Research and Development in Canadian Industry, 2002

Reporting unit name and address						
Г Л						
		rez ce questionnaire en illez cocher 🗖				
Please correct any mistakes in name or address		Ø				
INFORMATION FOR RESPONDENTS)				
Survey objective This survey collects data which are essential to assure the availability of pertinent statistical information to moni activities in Canada and to support the development of science and technology policy. Your data will be used, research and development (R&D) incentive programs and to complete national totals for scientific R&D expendit this survey will be published in "Industrial Research and Development (Cat. No. 88-202-XIB) and "Science Stat Authority	for instance, tures and per-	to plan and evaluate sonnel. The results of				
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. Confidentiality 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 Agreements 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 firms 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 and coverage This questionnaire should be completed for the fiscal year ending in 2002 . This report should exclude foreign op in Canadian currency .	erations. Plea	ase report all amounts				
 Please complete a separate questionnaire for each company performing R&D activities in Canada. If your records do not permit separate reporting, ensure that questions 1 to 8 only include data on companies performing R&D in Canada. If your company performs R&D activities, all questions should be completed. 						
• If your company does not perform but funds R&D, complete questions 2, 3, 4, 10, 11, 12, 13 and certification						
GENERAL CORPORATE DATA (questions 1 to 4) 1. a) If your records do not permit separate reporting, list the name of the other companies performing R&I included in questions 2 to 6 of this questionnaire, and indicate "YES" in column 2; these firms will be conside) in Canada red members	for which data will be of this reporting unit.				
b) If this reporting unit includes Canadian R & D activities performed in direct support of other Canadian related firms (i.e. parent, subsidiaries) which themselves do not perform R & D, list these Canadian companies and indicate "NO" in column 2.	Performs R&D	Indicate type of affiliation with reporting				
Name of companies (please print full legal name and attach additional sheet if necessary)	YES or NO	unit (i.e. parent, subsidiary or other)				
315						
316						
317						
318						
319						
 c) Latest fiscal year for which a claim for Scientific Research and Experimental Development (T661 SRED) was filed with Revenue Canada 	533					
d) In the fiscal year ending in 2002, did your firm engage in R&D alliances with other firms or organizations?	⁵³⁴ Yes	or No				
2. FISCAL YEAR ENDING IN 2002 FROM 531 2 0 1 1 TO 532 2 year month day	,	nonth day				
3a) REVENUES IN CANADA of reporting company and Canadian firms listed in questions 1 a) and 1 b). Indicate their approximate sales and other revenues originating from Canadian operations for 2002 ("see Instruction Guide")	► ¹⁹³	3 (in thousands of Cdn \$)				
b) Please estimate the percentage of your 2002 revenues, reported in question 3a), that was generated by new substantially improved products/services introduced by your firm during the three-year period 2000-2002	or > 53	6 %				

4. NUMBER OF EMPLOYEES IN CANADA of reporting company and Canadian firms listed in questions 1 a) and

Date:

CERTIFICATION

GST No. (BN No.)

Business address:

Postal code:

1b). Indicate their average number of employees on payroll in Canada for 2002.



Official position:

Email address:

5-5300-402.1 2003-01-31 STC/SAT-465-60041

Name of person who completed this report (please print)

Canadä

Extension

1

Telephone No.

)

(

Fax No.

094 (number)

				DATA ON I	R&D PER	FORMED	(quest	ions 5 to 8)					
5.	PERSONNEL OF TH	IS REPOR	TING UNI	T ENGAGEI	D IN R&D (F	ULL-TIME	EQUIV	ALENT*) (use	rounded i	numbers or	ıly)		
		Professionals Supporting Staff* Scientists and engineers Senior R&D administrators Technicians								Total			
		Bachelors	Masters		rs Total	Sachelors	Master		ors Total	Technicians and techno- logists	Other	R&D personnel	
		082	083	084		085	086	087		088	089	**	
	a) In 2002												
	please indicate M											_	
	% of males % and females F												
	b) Planned for 2003												
*	See "Instruction G Divide wages and s)02 (Oues	tion 6a) by to	tal R&D ner	rsonnel				Average wa	ges and	salaries	
	If the average R&D						review t	he data		(in thousa	ands of C	dn \$)	
6	EXPENDITURES IN				ד אודווא ד					(#100000			
	(2002 total R&D exp												
			CURREN	T EXPENDIT	URES			CAPITAL EX	-				
		Wage and sala		Other ent costs**	Total current	La	nd	Buildings	Equipme & Other		otal pital	Total	
			I	I		(in t	housand	s of Cdn \$)	Other				
a)	Made in 2001	001	002			009		010	011				
- /		003	004	,		012		013	014				
<u> </u>	Made in 2002	005	006			015		016	017				
c)	Planned for 2003	007	008			018		019	020				
	Forecast for 2004				tal P&D av					outable to a	oftwara		
e)	development***	se estimate	the perce	inage of to		penditures	(reporte				Soltware	308 %	
f)	If applicable, please		•	-	•						••	309 %	
g)	If applicable, pleas treatment and reuse	e estimate t e of pollutant	the perceits and was	ntage of tota stes, and red	al R&D expe uction of ma	enditures (aterial and	reported energy u	above for 20 Ise***	02) attribut	able to pre-	vention,	314 %	
h)	Are there important (apart from any R&				elated to the	R&D repo	rted for 2	2002		⁵³⁵ Ye	• 🗌	or No	
i)	If applicable, pleas		•	0,	al R&D evr	enditures	(reporte	d above for 2	002) attribu			537	
"	materials***						(reported				avanceu	%	
*	Include fringe bene	•	00			ntraata aw	orded fo	r drilling nood	ad far baa		Evoludo	contracta for	
***	Include contracts for R&D work itself white See "Instruction Contemporation Conte	ch should be	equired to e reported	in questions	10 & 11. Ex	xclude cap	bital dep	reciation.			Exclude	CONTRACTS TO	
	REGIONAL INFOR		R R&D I	PERFORME	d <u>within</u>	THIS REF	ORTINO	G UNIT IN 20	02 (Exper	ditures sh	ould be	reported in	
	thousands of Cdn \$	5)											
								R&D e	penditures		R&D n	ersonnel	
		acion whore		norformed			ber of &D	Current	Capit		essionals	Supporting	
	R	egion where	Rad was	periormed			shments unt) *			_		equivalent**)	
								(in thousau	105 Of Can	1\$) (Fu 135	ili-time e	quivalent^*)	
	1. Newfoundland a							110	123	136		149	
	2. Prince Edward Is	sland						111	124	137		150	
	3. Nova Scotia							112	125	138		151	
	4. New Brunswick							112	126	139		152	
	5. Québec (excludi	ng Montréal	area and	National Cap	ital Region)	1		114	127	140		153	
	 Montréal metrop National Capital 							310	311	312		313	
	Québec (specify):							-				
	Ontario (specify)	:						294	295	296		297	
	8. Ontario (excludir	ng Toronto a	rea and N	ational Capit	al Region)			115	128	141		154	
	9. Toronto, metropo	olitan area				_		116	129	142		155	
	10. Manitoba							117	130	143		156	
	11. Saskatchewan							118	131	144		157	
	12. Alberta							119	132	145		158	
	13. British Columbia							120	133	146		159	
	14. Yukon, Northwes							121	134	147		160	
	Total (equal to reported in que	2002 expend stions 6b) a	ditures an Ind 5a)	d personne	I								

* Please complete Question 9 for each establishment identified above.

** See "Instruction Guide" for areas covered in the National Capital Region.

	URCES OF FUNDS FOR R&D PERFORMED <u>WITHIN</u> THIS REPORTING UNIT IN 2002		
(IN	thousands of Cdn \$)	Canadian sources	Non- Canadian
a)	Reporting unit funding (include also funds from companies listed in question 1a)	021	022
- /	(i) Please indicate % of a) which were provided by venture capital firms	%	%
b)	Parent, affiliated and subsidiary companies (only those not included in question 8a).	.1	.4
,	Name of companies (please print full legal name and attach additional sheet if necessary.)	Ĭ	
	325	335	345
	326	336	346
	327	337	347
	328	338	348
	329	339	349
	Sub-total (b)	023	024
c)	Canadian Federal Government:* (i) R&D grants and the R&D portion only of any other grants.		
	Industry Canada: Technology Partnership Program	162	
	National Research Council: Industrial Research Assistance Program	164	
	Atlantic Canada Opportunities Agency	163	
	Canada Economic Development (Québec Regions)		
	Western Economic Diversification Office		
	Other grant programs (specify):	⊣	1
	(specify):		
	Sub-total (c)	027	
	(ii) R&D contracts and the R&D portion only of any other contracts.	1	
	Contracting departments: (Payments are often made through Public Works and Government Services Canada for other departments; please specify contracting department)	<u> </u>	
	Canadian Space Agency	\square	-
	National Defence		-
			-
	Sub-total (c ii)	026	
d)	Provincial government:* (specify province):		
	(specify province):		-
	(specify province):		-
	Sub-total (d)	291	1
		231	
e)	R&D contract work for other companies	-	
	Name of companies (please print full legal name and attach additional sheet if necessary.)		
	355	365	375
	356	366	376
	357	367	377
	358	368	378
	359	369	379
	360	370	380
	361	371	381
	362	372	382
	363	373	383
	364	374	384
	Sub-total (e)	028	029
f)	Others (i.e. universities, foreign government) (specify):	387	388
	Sub-totals (a to f)		
	Total (equal to the 2002 grand total expenditures of question 6b)	♥	₩
	*Questions 8c) and 8d) – Do not include any funds or tax credits from tax incentives: these should be		

Is 8c) and 8d) – Do not include any funds or tax credits from tax incentives; these sho considered part of your internal funding reported in question 8a).

NATURE OF R&D					-					
Please complete the following question for each R&D R&D establishment, please photocopy this section and) establishment (previously d complete for each R&D e	identified in stablishment	ques	stion /). It	you ha	ave m	iore tr	an o	ıe
	(i.e. 1, 2, 3, etc.)									_
Name of R&D establishment:										
Address of R&D establishment:										
Street				City						_
				Uity						
Province			Po	stal coo	de					-
Contact:										
Name	Position title			()	Teleph		0		_
nanc	Position title					reiepi		10.		
1. What were the current (non-capital) R&D Expenditures of			wooti	on 6)		(in t	housai	nds of C	dn \$)	
 (the total amounts reported for all R&D establishments sh How many scientists and engineers (full-time equivalent) 	•					(fu	ull time	equival	ent)	
(the total amounts reported for all R&D establishments sh	hould equal the total of cells 08	32 to 084 in qu	estior	י. 1 5)						
3 Please estimate, in terms of the percentage of the curren	nt R&D expenditures, the appro	oximate distribu	ution	of your	R&D	effort ir	n 2002	2:		
A. Basic research (no specific practical application in vie	ew)									%
B. Applied research (with a specific practical application	ו in view)									%
C. New * product development										%
D. Existing * product improvement										%
E. New * process development										%
F. Existing * process improvement										%
G. New * technical services development										%
H. Existing * technical services improvement										%
									100	
* Please consider new to mean totally or essentially ne may exist elsewhere in the world but your R&D is not to avoid any of the normal risks of development. Exis which they have the basic information - the product/p	t aided by this fact since your p isting would mean that your sta process/service need not alread	personnel do n ff would be im dy be provided	ot hav provir ' by yo	ve acce ng a pro	ess to oduct	the info proces	ormati	on nec	essar	/
	MENTS FOR R&D (question)	ons 10 and [•]	11)							
10. PAYMENTS FOR R&D PERFORMED BY OTHER ORG (2002 should equal the total of question 11.) (in thou										
a) Made in 2001								038 039		—
b) Made in 2002 c) Planned for 2003								039		_
d) Forecast for 2004								041		
11. RECIPIENTS OF PAYMENTS* FOR R&D PERFORME										
(in thousands of Cdn \$)					Γ	In Cana			utside anada	
a) Parent, affiliated and subsidiary companies					F	Calla	lua		IIIaua	
b) Other companies										
c) Private non-profit organizations										
d) Industrial research institutes or associations										
e) Hospitals										
f) Universities										
g) Provincial research organizations					_					
h) Other (eg: Individuals, Non-University educational Ir	. ,				_					
Total	of items 11a) to 11h)				L			J	Т	ī
	(equal to 2002 figure entered	-	10b) .			· ↓ [1
* Payments made outside Canada should be repo	orted net of withholding taxe	s.								

Indextension record and/or unbolications and/or individuals Partnerskies (Station Autor Radio Technical ASSITTANCE' (in thousands of Cell 5) Individuals Individual Indinitate Individual Individual Indinitate Ino	A company can acquire information based on R&D performed in the past by other companies, organizations or indi information based on R&D it has performed in the past. In the preceding section, payments are reported for the support being done. In this section, consider only payments for information and rights derived from R&D performed in the past.	viduals. Similar ort of R&D whils	
	LICENSING) KNOW-HOW (UNPATENTED), INVENTIONS, TRADEMARKS (INCLUDING FRANCHISING),		
to utter organizations and/or individuals 92 94 Total 92 93 * Payments made outside Canada should be reported net of withholding taxes. 9 Fecelpts tron parent, affiliated and/or subsidiary companies 195 107 tron other organizations and/or individuals 196 196 Total 064 069 Company to the subsidiary companies Total 064 069 Colspan="2">Company to the subsidiary companies Total 064 069 Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspa= Total painter paintere materin an organization on page 2 and ret		101	103
Total 92 93 * Payments made outside Canada should be reported net of withholding faxes. 16 107 * In page 11 and the control of the standard of		102	104
Payments made outside Canada should be reported net of withholding taxes. Parceipts Total Parceipts Total DEAL ON ENERGY R&D (question 13) DEAL ON ENERGY R&D (question 13) DEAL DEAL ON ENERGY R&D (question 13) Total DEAL DEAL		062	063
* Information The additional and/or subsidiary companies 196 196 * from other organizations and/or individuals 196 196 196 Total 064 055			
* Information The additional and/or subsidiary companies 196 196 * from other organizations and/or individuals 196 196 196 Total 064 055		1.05	1.07
<form> tom other organizations and/or individuals 064 055 Total 064 055</form>			
<form><form><form><form><form></form></form></form></form></form>	from other organizations and/or individuals	106	108
13. N 2002, DID THIS REPORTING UNIT PERFORM OR FUND ANY ENERGY RD? □ Yes ▶ Please complete the enclosed "Energy RD expenditures by area of technology" (green) questionnaire. □ No ▶ Please complete certification on page 2 and return questionnaires. COMMENTS: Comment	Total	064	065
COMMENTS: Reasons for Major Changes in Reported Expenditures and Personnel – In order to eliminate the necessity to verify discrepancies between this report and your last return (2001) please explain any significant changes which might be misconstrued as an error in reporting.	☐ Yes ► Please complete the enclosed "Energy R&D expenditures by area of technology" (green) ques	tionnaire.	
between this report and your last return (2001) please explain any significant changes which might be misconstrued as an error in reporting.	COMMENTS		
"Industrial Research and Development" (Cat. No. 88-202-XIB) and "Science Statistics" (Cat. No. 88-001-XIB). http://www.statcan.ca/english/IPS/Data/88-001-XIB.htm http://www.statcan.ca/english/IPS/Data/88-202-XIB.htm			
	"Industrial Research and Development" (Cat. No. 88-202-XIB) and "Science Statistics" (Cat. http://www.statcan.ca/english/IPS/Data/88-001-XIB.htm	No. 88-001-X	IB).
	nttp://www.statcan.ca/englisn/IPS/Data/88-202-XIB.htm		