Science Innovation and Electron	nic Information Divisio	on (SIEID)	Confidential when completed
Federal Science Ex Personnel 2005-2 Intellectual Propert			Si vous préférez ce questionnaire en français, veuillez nous appeler au (613) 951-2199
Information for respondents			
Survey Objective		Confidentiality	
This survey collects data that are essen availability of pertinent statistical informati ence and technology related activities in support the development of science and The data collected will be used by feder science policy analysts.	ion to monitor sci-	tics that would divulg	prohibited from publishing any statis- ge information relating to any identifi- hout the previous written consent of
Authority This survey is conducted under the authoritics Act, Revised Statutes of Canada, 198		statistics, Statistics, C under Section 12 of the for sharing it formation of the Statistics Act y when with Industry Ca cial and returning ye	burden and to ensure more uniform anada has entered into an agreement he Statistics Act with Industry Canada on from this survey. Under Section 12 you may refuse to share your informa- anada by writing to the Chief Statisti- our letter of objection along with the aire in the enclosed envelope.
I hereby authorize Statistics Canada to p	oublish any or all oction	ins of the data supplied of	n this questionnaire by this depart-
ment.			
1 O Yes 2 O No			
Name		Signature	
Official position	,	Program	
Department or agency			
Enquiries to be directed to:			
Enquiries to be directed to: Name	Date	Te	lephone number
Position/Title	e-mail address	Fa	x number
5 5300 420· 2003 10 07 STC/SAT 465 602	26 SOC/SAT 465 60326		

5-5300-420: 2003-10-07

*



1 0	General Informa	ation					
1.1	Establishments		anaging or c	ommercializi	ing IP		
	Please list the n included in your fig		-			R&D establis	hments, etc.)
	Also, indicate whe protection, promot			ed in intellect	ual property	management ((identification,
Ī						Engaged in IP	management
	Name of establishme	ent				Yes	No
						0	0
						0	0
						0	0
						6	0
							Ο
							0
1.2	IP management	infrastructure	and expendi	itures)	
1.2 a.	O A corpora	ommercializatior idual establishn ate-level office	n) is conducte nent	ed by <i>(check</i>		g identificatior	1, protection,
		nal organization		city).			
		ation of the abo					
1.2 b.	.For each level, in				•		
	 "Patent a registration "Litigation 	e equivalents" (F and regular lega on of copyright, n expenditures" include cettlem	expenditure	s" include the	ose for paten	t filings, patent	
	, 			Operational	expenditures for	· IP management	
		Employees engaged in IP management	Salaries and benefits (correspond- ing to FTEs)	Patent and regular legal expenditures	Litigation expenditures	Other operational expenditures	Total operational expenditures for IP management
	Organizai, n leve	(FTEs)			(dollars)		1
	Corporate						
	Separate establishments						

Other (please specify)

T

1.3	Contracts and collaborative arrangements					
	R&D contracts often result in intellectual property being created in the form of inventions, computer software, databases, published papers, etc. This section requests information on the role of contracts and collaborative arrangements in your organization.					
	We will obtain information on R&D contracted out from the main Federal Science Expenditures and Personnel survey.					
	For the purpose of this survey,					
	 "contracting in" refers to arrangements in which your organization is paid by an outside or- ganization to conduct R&D activities; 					
	 "contracting out" refers to arrangements in which your organization pays an external con- tractor to conduct R&D activities; 					
	 "collaborative arrangements" are formal joint R&D activities in which each party normally 					
	pays for the costs of its own participation u with universities to allow access to facilities	nder the agreem				
a.	What are your organization's policies concerning intellectual property resulting from R&D contracted in? That is, who owns the rights to the intellectual property and who has the first rights to license it?					
b.	What are your organization's policies concerning R&D arrangements?	intellectual prop	perty arising fr	om collaborative		
_	When were the end of the DOD contracts and	مسلما ومرم والرسائم ورافاه		- "0		
C.	Who were the spon sors of the R&D contracts und	Number of	Number of	Value of contracts		
	R&D contracted in froin:	sponsors	contracts	(dollars)		
	Federal government					
	Provincial and ther levels of Canadian government					
	Canadian business					
	Other Canadian organizations					
	Foreign governments					
	Foreign business					
	Other foreign organizations					
	Multi-stakeholder groups (e.g., consortia)					
	Other (please specify)					
	1					
		I	1			

d. Who were the **partners** with which collaborative R&D activities were undertaken during the reference year? "Activities" could be counted as specific agreements or projects. Please estimate the full value of in-kind contributions, such as staff time, travel and use of facilities.

Partners in collaborative R&D activities	Number of partners	Number of activities	Value of contribution (dollars)
Federal government			
Provincial and other levels of Canadian government			
Canadian business			
Canadian universities, hospitals or colleges			
Other Canadian organizations			
Foreign governments			
Foreign business			
Foreign universities, hospitals or colleges			
Other foreign organizations			
Multi-stakeholder groups (e.g., consortia)			
Other (please specify)	~	0,	

1.4 Barriers to commercialization

Please indicate your agreement or disagreement with the following statements on the barriers and challenges to IP management.

Barrie		Strongly Agree	Agree	Disagree	Strongl Disagre
1.1	Federal laws and regulations restrict the volities of departments to fully exploit their IP	0	О	Ο	0
1.2	Federal laws and regulations Lett companies from commercializing IP develope. Thy government	0	0	О	0
1.3	The poor understanding on and technology transfer policies leads to perceived barriers	0	О	О	0
1.4	There is a lack of compliance with reporting regulations (e.g., information allow, inventions is published before protected)	О	О	О	0
1.5	Ther is a push linkage to commercial lending organizations and venture capitalists	0	0	О	0
1.6	There is a lack of flexibility for inventors and innovators to commercialize	О	0	0	0

Barri	er	Strongly Agree	Agree	Disagree	Strongl Disagre
2. IP	Management Resources				
2.1	There is a lack of resources (monetary/personnel) to identify and manage IP	0	0	0	0
2.2	There is a lack of experience in identifying technologies that have a high potential for success	0	О	0	0
2.3	Staff involved in technology transfer require further training in IP identification, patent law, IP regulations	0	О	0	О
2.4	Technologies that have a potential for success are not identified sufficiently early	0	0	0	0
3 Re	evenue Retention	•			•
3.1	Commercialization is impeded because departments are not able to take an equity position in a company	0	0		0
3.2	Deferring payment of royalties until the technology is commercialized creates a perception that the IP has not been successful	8	3	0	0
3.3	Inventors and innovators are not adequately rewarded for their participation in the development and transfer of technology	0	0	0	0
4. Re	eceptors' Capabilities	Y			
4.1	Few Canadian SMES have both the resources and the skills necessary to commercialize technologies originating in feueral labs	0	Ο	0	0
4.2	Canadian companies believe they should obtain royality-ree licenses because they pay taxes	0	0	0	0
4.3	There are insufficient mechanisms to hc'n start-up companies in commercializing leading-edge technologies	0	0	0	0
4.4	There is no means for early contact with potential users	0	0	0	0
5. Ot	her				
5.1	Other (please specify,	0	0	0	0
5.2	Other (plc ase s, ecify)	0	0	0	0
1					

2 Identifying intellectual property

2.1 Reports and disclosures

Indicate the number of new reports or disclosures, during the reference year, of intellectual property arising from in-house R&D activities, R&D contracting and collaborative R&D activities. *The types of IP are defined more fully in the Respondent Guide*.

	In-house	of reports of IP a	Collaborative	Number of reports
Type of intellectual property reported	activities	Contracts	activities	declined
Inventions				
Copyrightable intellectual property				
Computer software or databases				
Educational materials				
Other intellectual properties				
Industrial designs		\sim		
Trademarks				
Integrated circuit topographies				
New plant varieties				
Know-how				
Other (please specify):		$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		

3 Protecting intellectual property

3.1 IP Protection activities

Has the organization engaged in any of the following forms of intellectual property protection over the past 5 years? Check YES in the counter provided, whether or not the action was completed. These are more fully defined in the Pespondent Guide.

Protection activity	Yes	No
1. Filing patent applications	0	0
2. Prior art searches	0	0
3. Patent prosecutions	Ο	0
4. Patent cooperation treaty coplications	Ο	0
5. Registration of cc yr ght for computer software or databases	Ο	0
6. Registration of curyunght for educational materials	Ο	0
7. Registration c ^c copyright for other copyrightable intellectual properties	Ο	0
8. Filing for protection of trade-marks or official marks	Ο	0
9. Registration of integrated circuit topography	Ο	0
10. Filing application for plant breeder's rights	Ο	0
11. Administration of materials transfer agreement (inbound	Ο	0
12. Administration of materials transfer agreement (outbound)	Ο	0
13. Signing non-disclosure or confidentiality agreement	0	0
14. Other (please specify)	0	0

3.2	Intellectual properties res	sulting in	protection a	activ	/ity					
	During the reference year,	how many	intellectual	prop	oerties	result	ed in	protect	ion activity?	>
	Type of intellectual property	,							per that result tion activ	ed in protec-
	Inventions									
	Copyrightable intellectual prope	rties								
	Computer software or o	databases								
	Educational materials									
	Other intellectual prope	erties								
	Industrial designs									
	Trade-marks and official marks									
	Integrated circuit topographies									
	New plant varieties									
	Know-how									
	Other <i>(please specify</i>):									
3.3	Patents					4	T) —		
a.	During the reference year	how ma	nv patents v	were	appl	5	· and	issued	to the ora	anization?
•••	International (for example,	Patent Co	poperation T	reat	y app	ແລະສາເວ	ns, P	CT) and	regional a	oplications
	(e.g., European Patent Off									•
		New	patent applicat	io <u>r</u> s:				Patent	s issued in:	1
	Field of technology	Initiating	Follow-on	т	otai	Cana	eh	US	Other	Total issued
	Agriculture and biological sci-	miliating		7		Ound	uu	00	Other	155000
	ences and technologies									
	Engineering and applied sci- ences									
	Health professions, sciences									
	and technologies Mathematics and physical									
	sciences									
	All other fields not									
	elsewhere classified									
	Total	Y								
					•		•		*	•
b.	Patents held, commercializ	ed and pe	ndina							
.			inaning						Other	
					Can	ada	ι	JS	foreign	Total
	Total patents held (including patence year)	tents issued	during the refe	r-						
	Total patents pending									
	Patents (held or pending) licens commercialized during the refer		l or otherwise							

	Exclusive or	Non- exclusive or multiple li-	
	sole license	cense	Tota
1. New licenses (total of 1.a + 1.b)			
a. New licenses with Canadian licensees, of which were		4	
i) sponsors of research contracts, contractors or collaborators			
ii) not involved in generating the technology being licensed			
b. New licenses with foreign companies			
2. Active licenses (total of 2.a + 2.b)		,	
a. Active licenses with Canadian licensees, of which were			
i) sponsors of research contracts, contractors or collaborators			
ii) not involved in generating the technology being licensed			
b. Active licenses with foreign companies			
	•		
What were the sources of the technologies upon which the	he new licenses a	e based?	
Technology source		Total new	licenses
In-house activities			
External activities (contracting out)			
External activities (contracting in)			
Collaborative activities			
Multiple sources			
Other (please specify) Total (this total should match the total number of new licenses above			

r

4.3 Income received from intellectual property

a. Please specify the **nature of the income** received during the reference year from intellectual property commercialization.

		From:	
	Canadian	Foreign	
	licensees	licensees	Total
Nature of income received from IP commercialization		dollars	
Running royalties			
Milestone payments			
One-time sale of IP (in exchange for a single payment or several payments)			
Reimbursement of patent, legal and related costs		4	
License income received from another Canadian institu- tion under a revenue sharing agreement			
Other (please specify)			
Other (please specify)	~	0,	
Total	5	\	

b. Please specify **the nature of the activity** generating the income received during the reference year from intellectual property commercialization.

		From:	
	Canadian	Foreign	
	licensees	licensees	Total
Income received from IP arising from:		dollars	
In-house activities			
External activities (contracting out)			
External activities (contracting in)			
Collaborative activities			
Multiple sources			
Other (please specify, I			
Total			

5.1 Spin-offs

New companies are often formed to commercialize technologies that are owned by public sector organizations. Spin-offs can result from several institutional arrangements:

- Licensing: A new company is formed to license and commercialize the organization's technology (these are sometimes called start-ups)
- R&D A new company funds research at the organization to develop technologies that it plans to license.
- **Service** a new company is formed to provide a service that was originally offered through the organization. This also includes employee takeovers, or companies that are started by former employees on an arrangement to commercialize the technology.

List the legal names of spin-off companies incorporated within the past 10 years, their year of incorporation, the company status (conceptual stage, early stage, active, mergeo, inactive, closed), technology sector (refer to the technology sector classification provided for Question 3.3) and the institutional link (licensing, R&D, service or other).

	Legal name	Year incorporated	Compa.y	Technology sector	Institutional link
		~			
			>		
	,				
	N				
	Use additional sheets of paper, if necessary.				
5.2	Leveragin a external investment				
	During the reference year, how much external investment in the spin-offs (venture capital, angel investment, etc.) was raised with the assistance of the organization?				dollars
	· · ·	0			

6 Respondent guide

This questionnaire, in general, covers the intellectual property generated from R&D activities. We acknowledge that commercializable IP arises from other activities as well and that it may be difficult to differentiate. Whenever possible, please report figures for IP generated from R&D activities. If this is not possible, please note that the figures include IP generated from non-R&D activities.

If exact numbers are not readily available, please provide estimates with a note indicating this.

Please do not leave any question blank. Enter zero responses with the digit "0" if the value is known to be zero. If the data are not available, enter "N/A". In cases where the question is not applicable, please indicate this.

Report all dollar amounts in Canadian dollars.

6.1 Notes on survey questions

- This is to determine the overall coverage of the response. If only part of the organization is covered, please note this here. If discernable groups within the organization generate IP, please list them here.
- 1.2b. The term "operational expenditures" is intended to capture all expenditures except for those on capital equipment. The sub-categories are as follows:
 - Salaries and benefits
 - Expenditures on patent applications, nocluding:
 - Initial description and reporting of invention
 - Inventor determination
 - Patent searches
 - Prior art searches
 - Patent valida ion
 - Regular Loge' expenditures, including:
 - Potent opplication preparation
 - Patent filing (Domestic and offhore)
 - Patent examination and prosecution
 - Litigation expenditures
 - Other operational expenditures, including:
 - Case administration
 - Patent maintenance
 - Awards management
 - Monitoring, enforcement and exploitation
 - Patent infringement
 - Total this should be the sum of the above

- 2.1 Intellectual property includes:
 - "Invention" means any new and useful art, process, machine, manufacture or composition of matter, or any new and useful improvement in any art, process, machine, manufacture or composition of matter (Public Servants Inventions Act. R.S., c. P-31, s. 1.). Some inventions are patentable in some jurisdictions but not in others: these include novel geneticallyengineered life forms, new microbial life forms, methods of medical treatment and computer software.
 - Copyrightable intellectual property has been broken into three groups:
 - Computer software or databases: As noted above, computer software can be patented but normally it is protected by copyright. Databases may also be copyrighted
 - Education al materials: This category includes special materials that may be copyrighted but are not necessarily in the form or printed books. This could include broadcast lessons, Internet pages, booklets, posters or computer files, among others.
 - Other intellectual property: This category includes any copyrightable works other than computer software and databases and special educational materials such as literary, artistic, dramatic or musical works, books, papers.
 - Industrial designs: These are original shapes, patterns or ornamentations applied to a manufactured article. Industrial designs are protected by registration with the Canadian Intellectual Property Office.
 - Trademarks: These are words, symbols, designs, or combinations thereof used to distinguish your wares or services from someone else's. Trademarks are registered with the Canadian Intellectual Property Office.
 - Integrated circuit topographies: This is a three-dimensional configuration of the electronic circuits used in microchips and semiconductor chips. Integrated circuit topographies can be protected by registration with the Canadian Intellectual Property Office.
 - New plant varieties: Certain plant varieties that are new, different, uniform and stable may be protected by registration with Plant Breeders' Rights Office, Canadian Food Inspection Agency.

 Know-how: is practical knowledge, technique or expertise. For example, certain information is codified in the patent application but a re- searcher's know-how could be valuable for commercial optimization of the product. Know- how can be licensed independently of the terms 	Signing non-disclosure or confidentiality agreement: A contract between parties in- tended to avoid the disclosure of proprietary rights, trade secrets or confidential informa- tion to a third party.
of a related patent.	3.3b Patents pending: A label sometimes affixed to
 3.1 IP protection activities: Filing patent applications: The formal request for a patent. Prior art searches: Examination of previously published patents. 	 new products informing others that the inventor has applied for a patent and that legal protection from infringement (including retroactive rights) may be forthcoming. 4.1 A Canadian business is any business that is
 Patent prosecutions: All the steps involved in completing a patent application. Patent cooperation treaty applications: An application under the international treaty providing for standardized filing procedures for foreign patents in the countries that have 	incorporated in a Canadian jurisdiction. A for- eign business is any business that is not incorpo- rated in a Canadian jurisdiction. "Foreign" in- cludes the United States. A multinational busi- ness would be clastified as Canadian if it has an operation incorporated in a Canadian jurisdic- tion
 signed the treaty. Application for registration of copy- 	tion.
• rights: The formal request for a copyright.	4.3 Income received is in dollars:
 Filing for protection of trademarks: The formal request for registration of a trade- 	 Running royalties are those based on the sale of products.
mark.	hilestone payments are those made by a li-
Application for registration of integrated	cer see at predetermined points in the com- mercialization process.
circuit topographies: The formal request for registration of integrated circuit topogra-	One time sales of IP include income from as-
phies.	signments to commercial exploiters.
Application for plant breeder's rights: The formal request for registration of plant	Other income received from intellectual property: For example, if a potential licensee
breeder's rights.	contributes the funds to apply for the patent, this could be considered another source of in-
 Materials transfer agreement: A contract between laboratories covering the use of 	come. Please list all items whether or not fig-
and IP arising from the sharing of biological	ures are available.
(genetic) materials.	
Comments	
×	