

Science, Innovation and Electronic Information Division

Survey of Intellectual Property Commercialization in the Higher Education Sector, 1999

| In all correspond | ence concerning this | questionnaire |
|-------------------|-----------------------|---------------|
| please quote this | three-digit reference | number. |
| | | |

Confidential when completed.

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Si vous préférez ce questionnaire en français, veuillez nous appeler au (613) 951-2199.

| _ | M | | | | - 4.4 | ٠, | | |
|---|--------|---------|------|-----|----------|----|----------|----|
| ۲ | riease | correct | name | ana | address, | IT | necessar | у. |

Purpose

The information you provide is essential to assure the availability of pertinent information to monitor science and technology related activities and to support the development of science and technology policy. Statistics Canada will create a database combining survey responses with other Statistics Canada records concerning your institution.

Confidentiality

While participation in this survey is voluntary voluntary cooperation is important to ensure that the information collected is as accurate and as comprehensive as possible. Statistics Canada is prohibited by law from publishing or releasing, in any manner, any statistics that would divulge information obtained from this survey relating to any identifiable business, institution or person, without the previous written consent of that business, institution or person. The data reported on this questionnaire will be treated in strict confidence, used for statistical purposes and published in aggregated form only. The confidentiality provisions of the Statistics of are not affected by either the Access to Information Actor by any other legislation.

Questions?

If you require assistance in completing this questionnaire or have any questions regarding this survey, please call the sponsoring division collect: Statistics Canada, Science Innovation and Electronic Information Division, 613-951-2199 (Call collect).

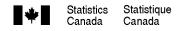
Survey Contact

Please indicate the name of the person completing this form so that we know whom to contact should we have any questions.

| \searrow | | | | <u> </u> |
|------------------|-----------|-----|----------|----------|
| Name | | | | |
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| Title | | | | |
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| E-mail | | | | |
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| 1. General Information |
|---|
| 1.1 Please report your fiscal or other business year ending between April 1, 1998 and March 31, 1999. |
| This report covers months (number) |
| From: 1 9 9 To: 1 9 9 day month year day month year |

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| Name of Institution | | | ntellectual property management | | Indicate type of affiliation with main (i.e., affiliated college, research institu | | |
|---|--|--|--|---|---|---|--|
| | | Yes | No | (1101) | | pital or other). | |
| | | 1 🔾 | 2 | Main i | nstitution | | |
| | | 1 🔾 | 2 | | | | |
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| | | 1 🔾 | 2 | | | | |
| | | 1 🔾 | 2 | | | | |
| | | | | | | | |
| Please note the names of a For each office, indicate t | the resources | dedicated | to IP n | nanageme | ent. "Full-ti | me equivalen | ts" (FTEs) is |
| • | the resources person-years agement. ("Lec | dedicated Expenditu gall costs" | to IP n ires shou include t tures" ex | nanagemould be eso hose for clude exp | ent. "Full-ti timated to co patent searc penditures or | me equivalen orrespond to t thes. registrati | ts" (FTEs) is the portion of ion of copyric |
| estimate of the number of office dedicated to IP management | the resources person-years agement. ("Lec | dedicated Expenditu gall costs" | to IP n ures shou include t tures" ex Ope | nanagemould be eso hose for clude exp | ent. "Full-ti timated to co patent searc penditures or | me equivalen orrespond to t ches, registrati n equipment. | ts" (FTEs) is the portion of ion of copyric |
| Please note the names of a For each office, indicate t estimate of the number of office dedicated to IP manalawyers' fees, court costs, e | the resources person-years agement. "Legetc. "Operation Employees dedicated to IP | Salaries (corresponding to | to IP n ures shou include t tures" ex Ope | nanagemuld be es hose for clude experational experational expenditures patent | ent. "Full-ti timated to co patent searce penditures or spenditures for Legal | me equivalen orrespond to thes, registration equipment. TIP manageme Other operational expenditures | ts" (FTEs) is the portion of copyrigent Total operational expenditures for IP |
| Please note the names of a For each office, indicate t estimate of the number of office dedicated to IP manalawyers' fees, court costs, e | the resources person-years agement. "Legetc. "Operation Employees dedicated to IP management | Salaries (corresponding to | to IP n ures shou include t tures" ex Ope | nanagemuld be es hose for clude experational experational expenditures patent | ent. "Full-ti timated to co patent searce penditures or spenditures for Legal costs | me equivalen orrespond to thes, registration equipment. TIP manageme Other operational expenditures | ts" (FTEs) is the portion of copyrigent Total operational expenditures for IP |
| Please note the names of a For each office, indicate t estimate of the number of office dedicated to IP manalawyers' fees, court costs, e | the resources person-years agement. "Legetc. "Operation Employees dedicated to IP management | Salaries (corresponding to | to IP n ures shou include t tures" ex Ope | nanagemuld be es hose for clude experational experational expenditures patent | ent. "Full-ti timated to co patent searce penditures or spenditures for Legal costs | me equivalen orrespond to thes, registration equipment. TIP manageme Other operational expenditures | ts" (FTEs) is the portion of copyrigent Total operational expenditures for IP |
| Please note the names of a For each office, indicate t estimate of the number of office dedicated to IP manalawyers' fees, court costs, e | the resources person-years agement. "Legetc. "Operation Employees dedicated to IP management | Salaries (corresponding to | to IP n ures shou include t tures" ex Ope | nanagemuld be es hose for clude experational experational expenditures patent | ent. "Full-ti timated to co patent searce penditures or spenditures for Legal costs | me equivalen orrespond to thes, registration equipment. TIP manageme Other operational expenditures | ts" (FTEs) is the portion of copyrigent Total operational expenditures for IP |
| Please note the names of a For each office, indicate t estimate of the number of office dedicated to IP manalawyers' fees, court costs, e | the resources person-years agement. "Legetc. "Operation Employees dedicated to IP management | dedicated Expenditu gal costs" al expendit Salaries (corresponding t FTEs) | to IP nures should to IP nures should to IP nures should to IT nures extended to IT nures ext | nanagemuld be es hose for clude experational experational experations | ent. "Full-titimated to copatent search penditures or spenditures for Legal costs | me equivalen orrespond to thes, registration equipment. TIP manageme Other operational expenditures | ts" (FTEs) is the portion of copyrigent Total operational expenditures for IP |

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| 1 | | esearch park or | Dusiness in | Jubator. | |
|--|----------------------------|-------------------------------------|--------------------|--------------------------------------|---|
| Name | | Your institution's on park or incub | ator activities | em (full-time eq to park or ir | your institution ployees wivalents) devocator activator sons) |
| | | \$ | | | |
| | | | | | / |
| tellectual property policies (excluding i | research co | ntracts) | | | |
| Is there a requirement to report the creation Please refer to the definitions in the accomp | n of the followanying hand | wing types of int | | perty at you | r institution? |
| | always | sometimes | check one never | <u>no</u> policy | no such IF at this institution |
| Inventions | | 2 | 3 🔵 | 4 🔵 | 5 🔵 |
| Computer software or databases | 3/9 | 2 | 3 🔾 | 4 🔾 | 5 🔾 |
| Literary, artistic, dramatic or musical works, books, papers | 10 | 2 | 3 🔾 | 4 🔾 | 5 🔾 |
| Educational materials | 1 🔵 | 2 | 3 🔾 | 4 🔵 | 5 🔾 |
| Industrial designs | 1 🔵 | 2 | 3 🔾 | 4 🔾 | 5 🔾 |
| madelial designs | 1 🔵 | 2 | 3 🔾 | 4 🔾 | 5 🔾 |
| Trademarks | | 2 | 3 🔵 | 4 🔵 | 5 🔾 |
| | 1 🔵 | | 3 🔵 | 4 🔵 | 5 🔾 |
| Trademarks | 1 (| 2 | | | 5 (|
| Trademarks Integrated circuit (opographies | | 2 🔾 | 3 🔵 | 4 🔾 | 30 |

| Inventions Computer software and databases Literary, artistic, dramatic or musical works, books, papers Educational materials Industrial designs Trademarks | 1 () 1 () 1 () 1 () | 2 2 2 2 | | |
|--|------------------------------|-----------------------|--------------------|-------------|
| Literary, artistic, dramatic or musical works, books, papers Educational materials Industrial designs Trademarks | 1 0 | 2 | | |
| works, books, papers Educational materials Industrial designs Trademarks | 1 () | | | |
| Industrial designs Trademarks | | 2 | | |
| Trademarks | 1 🔵 | | | |
| | | 2 | | |
| Integrated circuit tone graphics | 1 (| 2 | | A |
| Integrated circuit topographies | 1 🔵 | 2 | | |
| New plant varieties | 1 🔵 | 2 | | |
| Know-how | 1 (| 2 | | |
| Other (please specify) | 10 | 2 | | |
| | | arded the searcher | % of net royalties | royalties |
| Inventions | | % | 1 🔾 | 2 |
| Computer software and databases | | | | |
| Literary, artistic, dramatic or musical | | % | 1 🔾 | 2 |
| Literary, artistic, dramatic or musical works, books, papers | | % | 1 (| 2 |
| works, books, papers Educational materials | | % | 1 0 | 2 0 |
| works, books, papers Educational materials Industrial designs | | % % % | 1 0 | 2 0 |
| works, books, papers Educational materials Industrial designs Trademarks | | % % % | 1 0 | 2 0 2 0 2 0 |
| works, books, papers Educational materials Industrial designs Trademarks Integrated circuit topographies | | % % % % | 1 0 | 2 0 |
| works, books, papers Educational materials Industrial designs Trademarks | | % % % | 1 0 1 0 1 0 | 2 |

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| Who owns the intellectual property? Who has the first rights to license the intellectual property? | | |
|---|----------------------|---------------------------------------|
| Who has the first rights to license the intellectual property? | | |
| | | |
| | | |
| | | |
| . Please provide the following information for research contracts in eff handbook for detailed definitions of "Canadian" and "foreign". If there is sponsor, please provide the name and address and Statistics Canada with | s anv doubt about ti | hè ćlassification o |
| Sponsor | Number of contracts | Value of contracts (\$ thousands) |
| Federal government | | · · · · · · · · · · · · · · · · · · · |
| Provincial and other levels of government | | |
| Canadian businesses | | |
| Canadian organizations | | |
| Foreign governments | | |
| Foreign businesses | | |
| Foreign organizations | | |
| Other (please specify) | | |
| Total | | _ |
| | | |
| | | |
| carriers to intellectual property commercialization Are you aware of any instances where the benefit from intellectual pr | romonti, dovolono d | at wave impetituition |
| realized by another country? For example, a researcher premate subsequently commercialized in a foreign country. | | |
| ¹○ Yes (please describe) → | | |
| 2○ No | | |
| . Have there been any other instances where the institution has not gained property developed there? | d the maximum ben | efit from intellectu |
| | | |
| ¹○ Yes (please describe) → | | |

1.5 Research contracts

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| .7 / | pproaches to intellectual property management | | |
|------|--|------------------------------|--|
| a | . How is new intellectual property identified at the institution? | check one | |
| | The researcher is primarily responsible for recognizing the discovery and its potential, reporting it to the institution and requesting consideration for protection and commercialization. | 1 🔾 | |
| | The institution strictly monitors the activities of the researchers and notes which discoveries should be considered for protection and commercialization. | 2 | |
| | The institution actively solicits opportunities for commercialization and promotes the IP by providing advice and assistance to the researchers at various stages. | 3 🔾 | |
| | Other (please specify) | 40 | |
| t | . What are the main approaches to developing and commercializing the ins example, patenting and licensing could be managed by the technology tr commercialization company. <i>Provide the response on a separate sheet of paper.</i> | ansfer offic | e or alternatively by a |
| | | | |
| | | | |
| | | | |
| | | | |
| C | . Please describe a typical case of intellectual property management at your include who took what action and at what time. Provide your response on a sep | institution. parate sheet | This description should tof paper, if necessary. |
| | | | |
| | | | |
| | | | |
| F | faculty consulting activities Faculty consulting is an important means of transferring the institution's outside the institution. | s intellectua | al property to groups |
| a | . Are the institution's faculty members required to report on external consulting a | ctivities? | |
| | 1 always | | |
| | 2 ○ sometimes → What are those conditions? | | |
| | 3 never | | |
| | | | |
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| 2 | Identifying Intellectual Property | |
|-----|--|-------------------|
| | | |
| 2.1 | Indicate the number of new intellectual properties reported or disclosed to the institution during the reference year. | Number of reports |
| | · | |
| | Inventions | |
| | | |
| | Computer software and databases | |
| | | |
| | Literary, artistic, dramatic or musical works, books, papers | |
| | Educational materials | |
| | | |
| | Industrial designs | |
| | |) |
| | Trademarks | |
| | | |
| | Integrated circuit topographies | |
| | New plant varieties | |
| | Their plant randings | |
| | Know-how C | |
| | Other (please specify) | |
| | | |
| | | |

3. Protecting Intellectual Property

3.1 Has the institution engaged in any of the following forms of intellectual property protection over the past 5 years?

Indicate YES in the column provided, whether or not the action was completed. These are more fully defined in the handbook.

| handbook | $\langle \langle \langle \rangle \rangle$ | |
|----------|---|--|
| | | |
| | | |
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| | | |

| IP protection activity | <u>Yes</u> | <u>No</u> |
|--|------------|-----------|
| Filing of patent applications | 1 (| 2 |
| Registration of copyright for computer software or databases | 1 🔵 | 2 |
| Registration of copyright for literary, artistic, dramatic or musical works, books, papers | 1 (| 2 |
| Registration of copyright for educational materials | 1 🔾 | 2 |
| Registration of industrial designs | 1 🔾 | 2 |
| Filing for protection of trademarks | 1 (| 2 |
| Registration of integrated circuit topographies | 1 🔵 | 2 |
| Filing of applications for plant breeders' rights | 1 🔵 | 2 |
| Signing of non-disclosure or confidentiality agreements | 1 🔵 | 2 |
| Other (please specify) | 1 🔵 | 2 |

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| | | | | | er that resulted tection activity |
|---|----------------------------------|-----------------------------|----------------------------|------------------------------------|--------------------------------------|
| Inventions | | | | | |
| Computer software and databases | | | | | |
| Literary, artistic, dramatic or musical works, books, paper | rs | | | | |
| Educational materials | | | | | |
| Industrial designs | | | | | |
| Trademarks | | | | | |
| Integrated circuit topographies | | | | <u> </u> | |
| New plant varieties | | | | <u> </u> | |
| Know-how | | | | | |
| Other (please specify) | | | > | | |
| | | \bigcirc | | | |
| | \checkmark | | | | |
| Patent applications and patents issued During the reference year, how many patents were or not the institution retains the rights. International | l/(for example, F | Patent Cooper | ation Treat | v application | ns. PCT) : |
| During the reference year, how many patents were | l/(for example, F | Patent Cooper | ation Treat | v application | ns. PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International | (for example, Foatlons) should I | Patent Cooper | ation Treat single app | v application | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) | (for example, Football should I | Patent Cooper | ation Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences/Technologies | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences/Technologies 3. Engineering and Applied Sciences | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ns. PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences/Technologies 3. Engineering and Applied Sciences 4. Health Professions, Sciences and Technologies | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences Technologies 3. Engineering and Applied Sciences 4. Health Professions, Sciences and Technologies 5. Mathematics and Physical Sciences | (for example, Foatlons) should I | Patent Cooper oe counted as | ration Treat single app | y applications. | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences/Technologies 3. Engineering and Applied Sciences 4. Health Professions, Sciences and Technologies 5. Mathematics and Physical Sciences 6. All other not elsewhere classified | (for example, Foatlons) should I | Patent Cooper oe counted as | Patents US | y applications. issued in: other | ons, PCT) a |
| During the reference year, how many patents were or not the institution retains the rights. International regional applications (European Patent Office applications) 1. Commerce, Management and Business Administration 2. Agriculture and Biological Sciences/Technologies 3. Engineering and Applied Sciences 4. Health Professions, Sciences and Technologies 5. Mathematics and Physical Sciences 6. All other not elsewhere classified | (for example, Foatlons) should I | Patent Cooper oe counted as | Patents US | y applications. | ons, PCT) a |

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| | . U p | Illectual property promotion activities Under what conditions does the institution engage in roperty? This refers to market studies, business plan rototype developments, licensing studies and other relatives. | s, feasibility studie | | |
|--------------|------------------|--|---|-----------------------------------|-------------------------|
| b | | lumber of intellectual properties benefiting from promotic ctivities initiated during the reference year | on | (number) | |
| С | | otal expenditures on promotion activities | \$ | 40.40 | |
| | <u>u</u> | uring the reference year | Ψ | (\$ thous | sands) |
| 4 2 I | ice | enses | | | \ |
| F tl h | Plea ne an | ase report the number of new licenses executed during end of the year. If detailed figures are not available dbook for detailed definitions of "Canadian" and "foreig Statistics Canada will assign the appropriate classifications. | , please report tota in". If in doubt, ple | als in the appropri | ate cells. See the |
| | | | Exclusive or sole license | Non-exclusive or multiple license | TOTAL |
| а | | lew licenses executed with Canadian licensees that vere: | | | |
| | i) | | | | |
| | ii) | not involved in generating the technology licensed | | | |
| | iii | | | | |
| b | . i) | New licenses with foreign licensees | | | |
| | ii) |) Total new licenses (a.iii + b.i) | | | |
| С | i. A | sponsors of research contracts or participants in collaborative activities | | | |
| | ii) | not involved in generating the technology licensed | | | |
| | iii | | | | |
| d | l. i) | | | | |
| | ii) | | | | |
| 4.3 F | | /alties received | <u>. </u> | | 1 |
| li re | oya | ing the reference year, what was the total amount nse issue fees, running royalties, software and alties. See the handbook for detailed definitions of a spin-off companies. | database end-u | iser license fees | , and any other |
| • • • | | | 0 | FROM: | TOTAL |
| | | | Canadian sources (\$ thousands) | Foreign sources (\$ thousands) | TOTAL (\$ thousands) |
| F | Roy | alties received during the reference year | \$ | \$ | \$ |

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| 4.4 | On a separate sheet, please provi software and database licenses, list | | | | | | cense | ee. In th | e case of |
|-----|--|-------------------|--|--|---|---|---|--|--------------------|
| 4.5 | If there were other substantial so indicate the source of the income ar | | | | intelle | ctual prop | perty | commerc | cialization, |
| | | | | | | FROM | И: | | |
| | Other sources of income not covered by | y royalties (s | specify) | Canadian s (\$ thousa | | Foreign so (\$ thousa | ources | | OTAL ousands) |
| | | | | \$ | | \$ | | \$ | |
| | | | | \$ | | \$ | | \$ | |
| 5. | Impacts of Intellectual Prop | erty Con | nmerc | ializatio | n | | | | |
| 5.1 | New companies may be established. These companies are often called | d spin-offs | (2) fur ted or (3) pro ins | ense the in and research chnology the covide a serestitution's delibset of the constant of the | th at the nat will be wice that epartment | ne instituti pe license at was orig ent or unit | on in it is in it is in all your terms of the interest of the | the compa | any, hrough an |
| | institution's intellectual property, are | called star | rt-ups. | $\Diamond ($ |)) $$ | | | | |
| | In the space provided below (and on additional pages, if required), list the legal names of all spin-off companies, the year of their incorporation, the company status, technology sector, institutional link, and the percentage of the company owned by your institution. | | | | | | | | |
| | Legal name | Year (ncorporated | (conce early s | eptual stage, tage, active, nactive, closed) | (biote medicine, | ogy sector chnology, engineering, ciences, etc.) | (li | cutional link censing, O or service) | % of company owned |
| | Ç | | | | | | | | % |
| | % | | | | | | % | | |
| | | > | | | | | | | % |
| | | | | | | | | | % |
| | | | | | | | | | % |
| | | | | | | | | | % |
| | · | | | | | | | | % |
| | | | | | | | | | % |
| 5.2 | During the reference year, what was received from these spin-off compar of equity)? | | | | \$ | | | (\$ thousa | nds) |
| 5.3 | During the reference year, what was disposition of equity holdings in spin | | | ved from | \$ | | | (\$ thousa | nds) |
| 5.4 | What was the value of remaining equity in spin-off companies at the end of the reference year? \$ (\$ thousands) | | | | | | | | |

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| 6. Respondent Feedback | |
|--|---------------------------------------|
| 6.1 We are committed to minimizing the burden placed on our respondent Please answer the following questions to help us fine-tune the survey. | s while obtaining quality statistics. |
| a. How much effort was required to complete the survey? | person-hours |
| | |
| b. In your opinion, which was the most difficult question to answer? | question number |
| c. Did you find the questions and classifications used in the survey compatible with your own accounting systems? | \wedge |
| ¹ Yes | |
| No If not, please comment on how the concepts and classification compatible. | ns could be changed to be more |
| | |
| | |
| | > |
| $\Diamond_{\wedge}(\bigcirc)$ | |
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| 6.2 Other comments | |
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Thank you for your cooperation!