

# 2015 Annual Survey of Research and Development in Canadian Industry Industrial Non-profit Organizations

**CONFIDENTIAL once completed.**

Selon nos dossiers votre langue de préférence est l'anglais, si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-800-972-9692.

Please verify the business or organization name, contact person and address for this questionnaire and correct where needed.

Legal name

Operating name

First name

Last name

Title

Address (number and street)

City

Province, territory or state  Postal code or ZIP code

Country

## Business or organization and contact information

Email address <input type="text"/>	Telephone number (including area code) <input type="text"/>	Extension number <input type="text"/>
Preferred language of communication	Fax number (including area code) <input type="text"/>	
<input type="radio"/> English		<input type="radio"/> French

This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19.  
**COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.**

## Introduction

### Survey purpose

This survey collects information on scientific activities of Canadian businesses and industrial non-profit organizations. The research and development expenditures and personnel information is used by federal, provincial and territorial governments and agencies, academics, trade associations and international organizations for statistical analyses and policy purposes. These data also contribute to national totals of research and development activities. The payments and receipts information is used by these agencies to monitor knowledge flows across international borders and between Canadian organizations.

Your information may also be used by Statistics Canada for other statistical and research purposes.

### Security of emails and faxes

Statistics Canada advises you that there could be a risk of disclosure during facsimile or email. However upon receipt, Statistics Canada

will provide the guaranteed level of protection afforded all information collected under the authority of the *Statistics Act*.

**Note:** Our online questionnaires are secure, there is no risk of data interception when responding to Statistics Canada online surveys.

### Confidentiality

The *Statistics Act* protects the confidentiality of information collected by Statistics Canada.

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes.

Information on confidentiality, data-sharing agreements and record linkages can be found on the last page of this questionnaire.

**Please return the questionnaire within 21 days.**

**Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.**

If you are unable to complete within 21 days **OR** if you need help, call us at **1-800-972-9692**.

Statistics Canada  
Operations and Integration Division  
150 Tunney's Pasture Driveway  
Ottawa, Ontario K1A 0T6  
**Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)**

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## Business status

1. Is this business or organization currently in operation?

B00309

- Yes ► **Go to next section**
- No, seasonal operations ► **Go to question 2**
- No, ceased all operations ► **Go to question 4**
- No, sold all operations ► **Go to question 6**
- No, amalgamated with (an) other business(es) ► **Go to question 8**
- No, temporarily inactive but will re-open ► **Go to question 11**
- No, no longer operating due to other reason(s) ► **Go to question 14**

2. When did this business or organization close for the season?

YYYY MM DD

B00217

Date

--	--	--	--	--	--	--	--	--	--

3. When does this business or organization expect to resume operations?

YYYY MM DD

B00218

Date

--	--	--	--	--	--	--	--	--	--

► **Go to next section**

4. When did this business or organization cease all operations?

YYYY MM DD

B00211

Date

--	--	--	--	--	--	--	--	--	--

5. Why did this business or organization cease all operations?

B00311

- Bankruptcy
- Liquidation
- Dissolution
- Other reason — please specify:

B00312

--	--	--	--	--	--	--	--	--	--

► **Go to next section**

6. When was this business or organization sold?

YYYY MM DD

B00212

Date

--	--	--	--	--	--	--	--	--	--

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7. What is the legal name of the buyer?

B00406

▶ Go to next section

8. When did this business or organization amalgamate?

YYYY MM DD

B00213

Date

9. What is the legal name of the resulting or continuing business or organization?

B00407

10. What is (are) the legal name(s) of the other amalgamated business(es) or organization(s)?

B00408

▶ Go to next section

11. When did this business or organization become temporarily inactive?

YYYY MM DD

B00214

Date

12. When does this business or organization expect to resume operations?

YYYY MM DD

B00215

Date

13. Why is this business or organization temporarily inactive?

B00313

▶ Go to next section

14. When did this business or organization cease operations?

YYYY MM DD

B00216

Date

15. Why did this business or organization cease operations?

B00314

▶ Go to next section

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## Reporting instructions

1. Please print in ink.
2. Report all dollar amounts in **thousands of Canadian dollars**.
3. Do not include sales tax.
4. Percentages should be rounded to whole numbers.
5. Do not report dollars in decimals. Round all values to the nearest whole number.
6. Consult the reporting guide at [www.statcan.gc.ca/guides-e](http://www.statcan.gc.ca/guides-e) for further information.
7. When precise figures are not available, please provide your best estimates.
8. If this organization **performs** in-house R&D and **outsources** R&D, complete **all** questions.
9. If this organization **performs** in-house R&D and **does not outsource** R&D, complete questions 1-6, 9-20.
10. If this organization **outsources** R&D and **does not perform** in-house R&D, complete questions 1-4, 6-8, 13, 17-20.
11. If this organization **does not perform** in-house R&D and **does not outsource** R&D, complete questions 1-4, 6, 13, 17-20.

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## Organization characteristics

### Reporting period

1. What is the end date of this organization's fiscal year? . . . . .

	YYYY	MM	DD
B00206	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Note:** For this survey, **this organization's** fiscal year end date should fall on or before **March 31, 2016**.

Here are **some examples** of fiscal periods that **fall within the targeted dates**:

- May 1, 2014 to **April 30, 2015**
- July 1, 2014 to **June 30, 2015**
- October 1, 2014 to **September 30, 2015**
- January 1, 2015 to **December 31, 2015**
- February 1, 2015 to **January 31, 2016**
- April 1, 2015 to **March 31, 2016**

\*THIS FISCAL YEAR WILL BE REFERRED TO **AS 2015** THROUGHOUT THE QUESTIONNAIRE\*

### Organization status

2. What is this organization's GST number (9-digit business number)? . . . . .

B00419	<input type="text"/>
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3. **In 2015**, what were this organization's **total expenditures** within Canada?  
Please report all amounts in **thousands of Canadian dollars** . . . . .

	CAN\$ '000
E40001	\$ <input type="text"/> ,000

### Before you begin

#### For this survey

##### 'In-house R&D' refers to

Expenditures **within Canada for R&D** performed **within this organization** by:

- employees (permanent, temporary or casual)
- self-employed individuals or contractors who are **working on-site** on this organization's R&D projects

##### 'Outsourced R&D' refers to

Payments made **within or outside Canada** to other companies, organizations or individuals to fund R&D performance:

- contracts
- grants
- fellowships

## In-house research and development (R&D) expenditures

4. In 2015, 2016 or 2017, did this organization have or does it plan to have expenditures for **R&D performed in-house** within Canada?

**Exclude:** payments for outsourced (contracted out or granted) R&D which should be reported in question 7 on Outsourced (contracted out or granted) R&D.

B05138 1  Yes

2  No → Go to question 6

5. In 2015, 2016 and 2017, what are this organization's actual or planned expenditures for **R&D performed in-house** within Canada?

Please report all amounts in **thousands of Canadian dollars**.

Report '0' for no **R&D expenditures**.

	Made in 2015	Planned in 2016	Planned in 2017
	CAN\$ '000	CAN\$ '000	CAN\$ '000
<b>Current in-house R&amp;D expenditures within Canada</b>			
a. Wages, salaries of permanent, temporary and casual R&D employees <b>Include:</b> fringe benefits . . . . .	E45077_sr1 \$ [ ] ,000		
b. Services to support R&D <b>Include:</b> services of self-employed individuals or contractors who are working on-site on this organization's R&D projects. <b>Exclude:</b> contracted out or granted expenditures to other organizations to perform R&D (report in question 7). . . . .	E45077_sr2 \$ [ ] ,000		
c. R&D materials . . . . .	E45077_sr3 \$ [ ] ,000		
d. All other current R&D costs <b>Include:</b> overhead costs . . . . .	E45077_sr4 \$ [ ] ,000		
<b>Total current in-house R&amp;D expenditures within Canada</b>	E45050 \$ [ ] ,000	E45079 \$ [ ] ,000	E45082 \$ [ ] ,000
<b>Capital in-house R&amp;D expenditures within Canada</b>			
e. Software <b>Exclude:</b> capital depreciation . . . . .	E45078_sr1 \$ [ ] ,000		
f. Land <b>Exclude:</b> capital depreciation . . . . .	E45078_sr2 \$ [ ] ,000		
g. Buildings and structures <b>Exclude:</b> capital depreciation . . . . .	E45078_sr3 \$ [ ] ,000		
h. Equipment, machinery and all other <b>Exclude:</b> capital depreciation . . . . .	E45078_sr4 \$ [ ] ,000		
<b>Total capital in-house R&amp;D expenditures within Canada</b>	E45060 \$ [ ] ,000	E45081 \$ [ ] ,000	E45083 \$ [ ] ,000
<b>2015 - Total in-house R&amp;D expenditures within Canada</b>	E45070 \$ [ ] ,000		

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## Outsourced (contracted out or granted) R&D expenditures

6. In 2015, did this organization have **outsourced** (contracted out or granted) **R&D expenditures** within Canada or outside Canada?

**Include:** - contracted out expenditures for R&D  
- funding or grants provided to other organizations to perform R&D

**Exclude:** - services of self-employed individuals or contractors who are working on-site on this organization's R&D projects, which should have been reported earlier as part of in-house R&D expenditures in question 5

B05152\_tp 1  Yes

2  No → **Go to question 8**

7. In 2015, what were this organization's **outsourced** (contracted out or granted) **R&D expenditures** within Canada or outside Canada?

Please report all amounts in **thousands of Canadian dollars**.  
Report '0' for **no R&D expenditures**.

	Within Canada CAN\$ '000	Outside Canada CAN\$ '000
a. Companies	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
b. Private non-profit organizations	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
c. Industrial research institutes or associations	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
d. Hospitals	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
e. Universities	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
f. Federal government departments and agencies	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
g. Provincial government departments, ministries and agencies	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
h. Provincial research organizations	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
i. Other: e.g., individuals, non-university educational institutions, foreign governments	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>2015 - Total outsourced (contracted out or granted) R&amp;D expenditures</b>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000

8. In 2016 or 2017, what are this organization's planned **outsourced** (contracted out or granted) **R&D expenditures** within Canada or outside Canada?

Report "0" for **no R&D expenditures**.

	Within Canada	Outside Canada
<b>2016 - Total outsourced (contracted out or granted) R&amp;D expenditures</b>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>2017 - Total outsourced (contracted out or granted) R&amp;D expenditures</b>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000



## Geographic distribution of in-house R&D expenditures within Canada in 2015

9. In 2015, how were this organization's total expenditures for R&D performed in-house distributed by province or territory?

**Exclude:** - payments for outsourced (contracted out or granted) R&D which should be reported in question 7 on Outsourced (contracted out or granted) R&D  
- capital depreciation

Report all amounts in **thousands of Canadian dollars**.

Current in-house R&D expenditures	Capital in-house R&D expenditures
-----------------------------------	-----------------------------------

	CAN\$ '000	CAN\$ '000
a. Newfoundland and Labrador	E45077_g1 \$ <input type="text"/> ,000	E45078_g1 \$ <input type="text"/> ,000
b. Prince Edward Island	E45077_g2 \$ <input type="text"/> ,000	E45078_g2 \$ <input type="text"/> ,000
c. Nova Scotia	E45077_g3 \$ <input type="text"/> ,000	E45078_g3 \$ <input type="text"/> ,000
d. New Brunswick	E45077_g4 \$ <input type="text"/> ,000	E45078_g4 \$ <input type="text"/> ,000
e. Quebec	E45077_g5 \$ <input type="text"/> ,000	E45078_g5 \$ <input type="text"/> ,000
f. Ontario	E45077_g6 \$ <input type="text"/> ,000	E45078_g6 \$ <input type="text"/> ,000
g. Manitoba	E45077_g7 \$ <input type="text"/> ,000	E45078_g7 \$ <input type="text"/> ,000
h. Saskatchewan	E45077_g8 \$ <input type="text"/> ,000	E45078_g8 \$ <input type="text"/> ,000
i. Alberta	E45077_g9 \$ <input type="text"/> ,000	E45078_g9 \$ <input type="text"/> ,000
j. British Columbia	E45077_g10 \$ <input type="text"/> ,000	E45078_g10 \$ <input type="text"/> ,000
k. Yukon	E45077_g11 \$ <input type="text"/> ,000	E45078_g11 \$ <input type="text"/> ,000
l. Northwest Territories	E45077_g12 \$ <input type="text"/> ,000	E45078_g12 \$ <input type="text"/> ,000
m. Nunavut	E45077_g13 \$ <input type="text"/> ,000	E45078_g13 \$ <input type="text"/> ,000
<b>2015 - Total current and capital in-house R&amp;D expenditures</b>	E45100 \$ <input type="text"/> ,000	E45110 \$ <input type="text"/> ,000

▲  
Should equal total current in-house R&D expenditures from question 5

▲  
Should equal total capital in-house R&D expenditures from question 5

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**Sources of funds for in-house R&D expenditures in 2015**

10. In 2015, what were the **sources of funds** for this organization's total expenditures for **R&D performed in-house**?

Please report all amounts in **thousands of Canadian dollars**.

**Include:** Canadian and foreign sources

**Exclude:** - payments for outsourced (contracted out or granted) R&D which should be reported in question 7  
 on Outsourced (contracted out or granted) R&D  
 - capital depreciation

	From within Canada	From outside Canada
	CAN\$ '000	CAN\$ '000
a. Funds from this organization	E64047	E63037
<b>Include:</b> interest payments and other income . . . . .	\$ [ ] ,000	\$ [ ] ,000
b. Funds from member companies or affiliates	E65337	E63044
<b>Include:</b> annual fees and sustaining grants . . . . .	\$ [ ] ,000	\$ [ ] ,000
c. Federal grants	E64048	
<b>Include:</b> R&D grants or R&D portion only of other grants . . . . .	\$ [ ] ,000	
d. Federal contracts	E65049	
<b>Include:</b> R&D contracts or R&D portion only of other contracts . . . . .	\$ [ ] ,000	

**R&D contract work for companies**

	From within Canada	From outside Canada
	CAN\$ '000	CAN\$ '000
e. GST number (9-digit business number (BN) or charitable registration number)	E65048_nc1	E63038_nc1
<small>B71014_nc1</small>	\$ [ ] ,000	\$ [ ] ,000
Legal name		
<small>B71014_nc2</small>		
f. GST number (9-digit business number (BN) or charitable registration number)	E65048_nc2	E63038_nc2
<small>B71014_nc3</small>	\$ [ ] ,000	\$ [ ] ,000
Legal name		
<small>B71014_nc4</small>		
g. GST number (9-digit business number (BN) or charitable registration number)	E65048_nc3	E63038_nc3
<small>B71014_nc5</small>	\$ [ ] ,000	\$ [ ] ,000
Legal name		
<small>B71014_nc6</small>		
h. GST number (9-digit business number (BN) or charitable registration number)	E65048_nc4	E63038_nc4
<small>B71014_nc7</small>	\$ [ ] ,000	\$ [ ] ,000
Legal name		
<small>B71014_nc8</small>		
i. Other contracts not listed above	E65048_nc5	E63038_nc5
	\$ [ ] ,000	\$ [ ] ,000

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## Geographic distribution of provincial grants or funding and provincial contracts

Include: R&D grants/contracts or R&D or R&D portion only  
of other grants/contracts

	Provincial grants or funding	Provincial contracts
	CAN\$ '000	CAN\$ '000
j. Newfoundland and Labrador	E64049_g1 \$ [ ] ,000	E65051_g1: \$ [ ] ,000
k. Prince Edward Island	E64049_g2 \$ [ ] ,000	E65051_g2 \$ [ ] ,000
l. Nova Scotia	E64049_g3: \$ [ ] ,000	E65051_g3 \$ [ ] ,000
m. New Brunswick	E64049_g4 \$ [ ] ,000	E65051_g4 \$ [ ] ,000
n. Quebec	E64049_g5 \$ [ ] ,000	E65051_g5 \$ [ ] ,000
o. Ontario	E64049_g6 \$ [ ] ,000	E65051_g6 \$ [ ] ,000
p. Manitoba	E64049_g7 \$ [ ] ,000	E65051_g7 \$ [ ] ,000
q. Saskatchewan	E64049_g8: \$ [ ] ,000	E65051_g8 \$ [ ] ,000
r. Alberta	E64049_g9 \$ [ ] ,000	E65051_g9 \$ [ ] ,000
s. British Columbia	E64049_g10 \$ [ ] ,000	E65051_g10 \$ [ ] ,000
t. Yukon	E64049_g11 \$ [ ] ,000	E65051_g11 \$ [ ] ,000
u. Northwest Territories	E64049_g12 \$ [ ] ,000	E65051_g12 \$ [ ] ,000
v. Nunavut	E64049_g13 \$ [ ] ,000	E65051_g13 \$ [ ] ,000

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## R&D contract work for private non-profit organizations

	From within Canada	From outside Canada
	CAN\$ '000	CAN\$ '000
aj. GST number (9-digit business number (BN) or charitable registration number) <small>B71013_nc1</small>	<small>E65052_nc1</small>	<small>E63039_nc1</small>
<input type="text"/>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Legal name <small>B71013_nc2</small>	<input type="text"/>	
ak. GST number (9-digit business number (BN) or charitable registration number) <small>B71013_nc3</small>	<small>E65052_nc2</small>	<small>E63039_nc2</small>
<input type="text"/>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Legal name <small>B71013_nc4</small>	<input type="text"/>	
al. GST number (9-digit business number (BN) or charitable registration number) <small>B71013_nc5</small>	<small>E65052_nc3</small>	<small>E63039_nc3</small>
<input type="text"/>	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Legal name <small>B71013_nc6</small>	<input type="text"/>	
am. <b>Other sources</b> e.g., Universities, foreign governments, individuals	<small>E64051</small>	<small>E63041</small>
	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>2015 – Total in-house R&amp;D expenditures by sources of funds by origin (Sum of questions a. to am.)</b>	<small>E60310</small>	<small>E60320</small>
	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>2015 – Total in-house R&amp;D expenditures (Canadian and foreign sources) (should equal total in-house R&amp;D expenditures from question 5)</b>		<small>E60330</small>
		\$ <input type="text"/> ,000

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## Fields of research and development for in-house R&D expenditures within Canada in 2015

11. In 2015, how were this organization's **total expenditures** for R&D performed in-house within Canada distributed by fields of research and development?

**Exclude:** - payments for outsourced (contracted out or granted) R&D which should be reported in question 7 on Outsourced (contracted out or granted) R&D  
- capital depreciation

Report all amounts in **thousands of Canadian dollars**.

Report '0' for **no R&D expenditures**.

### Natural and formal sciences

**Exclude:** computer sciences, information technology and bioinformatics (to be reported at line s and t)

	CAN\$ '000	
a. Mathematics . . . . .	\$	,000
b. Physical sciences . . . . .	\$	,000
c. Chemical sciences . . . . .	\$	,000
d. Earth and related environmental sciences . . . . .	\$	,000
e. Biological sciences . . . . .	\$	,000
f. Other natural sciences . . . . .	\$	,000
<b>Total natural and formal sciences</b>	\$	,000

### Engineering and technology

**Exclude:** software engineering and technology (to be reported at line r)

	CAN\$ '000	
g. Civil engineering . . . . .	\$	,000
h. Electrical engineering, electronic engineering and communications technology . . . . .	\$	,000
i. Mechanical engineering . . . . .	\$	,000
i. Chemical engineering . . . . .	\$	,000
k. Materials engineering . . . . .	\$	,000
l. Medical engineering . . . . .	\$	,000
m. Environmental engineering . . . . .	\$	,000
n. Environmental biotechnology . . . . .	\$	,000
o. Industrial biotechnology . . . . .	\$	,000
p. Nanotechnology . . . . .	\$	,000
q. Other engineering and technologies . . . . .	\$	,000
<b>Total engineering and technology</b>	\$	,000

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**Software-related sciences and technology**

CAN\$ '000

r. Software engineering and technology .....	\$	<input type="text"/>	,000
		E45094_y1	
s. Computer sciences .....	\$	<input type="text"/>	,000
		E45094_y2	
t. Information technology and bioinformatics .....	\$	<input type="text"/>	,000
		E45094_y3	
<b>Total software-related sciences and technology</b>	\$	<input type="text"/>	,000
		E45087	

**Medical and health sciences**

u. Basic medicine .....	\$	<input type="text"/>	,000
		E45084_y1	
v. Clinical medicine .....	\$	<input type="text"/>	,000
		E45084_y2	
w. Health sciences .....	\$	<input type="text"/>	,000
		E45084_y3	
x. Medical biotechnology .....	\$	<input type="text"/>	,000
		E45084_y4	
y. Other medical sciences .....	\$	<input type="text"/>	,000
		E45084_y5	
<b>Total medical and health sciences</b>	\$	<input type="text"/>	,000
		E45120	

**Agricultural sciences**

z. Agriculture, forestry and fisheries sciences .....	\$	<input type="text"/>	,000
		E45095_y1	
aa. Animal and dairy sciences .....	\$	<input type="text"/>	,000
		E45095_y2	
ab. Veterinary sciences .....	\$	<input type="text"/>	,000
		E45095_y3	
ac. Agricultural biotechnology .....	\$	<input type="text"/>	,000
		E45095_y4	
ad. Other agricultural sciences .....	\$	<input type="text"/>	,000
		E45095_y5	
<b>Total agricultural sciences</b>	\$	<input type="text"/>	,000
		E45088	

**Social sciences and humanities**

ae. Psychology .....	\$	<input type="text"/>	,000
		E45096_y1	
af. Educational sciences .....	\$	<input type="text"/>	,000
		E45096_y2	
ag. Economics and business .....	\$	<input type="text"/>	,000
		E45096_y3	
ah. Other social sciences .....	\$	<input type="text"/>	,000
		E45096_y4	
ai. Humanities .....	\$	<input type="text"/>	,000
		E45096_y5	
<b>Total social sciences and humanities</b>	\$	<input type="text"/>	,000
		E45089	

**2015 — Total in-house R&D expenditures within Canada by field of research and development (should equal total in-house R&D expenditures from question 5) (sum of questions a. to ai.)**

\$	<input type="text"/>	,000
	E45130	

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## Nature of R&D for in-house expenditures within Canada in 2015

12. In 2015, how were this organization's **total expenditures** for R&D performed in-house within Canada distributed by nature of R&D?

### Percentage

a. Basic research .....	E45091_y1	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
b. Applied research .....	E45091_y2	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
c. Experimental development .....	E45091_y3	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<b>Total percentage</b> .....	E45140	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	%

## Results of R&D expenditures from 2013 to 2015

13. During the three (3) years **2013, 2014 and 2015**, did this organization's **total expenditures** for R&D performed in-house and outsourced (contracted out or granted) within Canada or outside Canada lead to new or significant improvements to the following?

		Yes	No
a. Goods .....	B10033 1	<input type="radio"/>	2 <input type="radio"/>
b. Services .....	B10034 1	<input type="radio"/>	2 <input type="radio"/>
c. Methods of manufacturing or producing goods and services .....	B10035 1	<input type="radio"/>	2 <input type="radio"/>
d. Logistics, delivery or distribution methods for this organization's inputs, goods or services ..	B10036 1	<input type="radio"/>	2 <input type="radio"/>
e. Supporting activities for this organization's processes, such as maintenance systems or operations for purchasing, accounting or computing .....	B10037 1	<input type="radio"/>	2 <input type="radio"/>

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## In-house R&D personnel in 2015

14. In 2015, how many **in-house R&D personnel** within Canada did this organization have in the following R&D occupations?

Please report in full-time equivalents (FTE).

**Include:** on-site consultants and contractors in line e.

Report '0' if **not applicable**.

If precise figures are not available, please provide your best estimate.

### Researchers and research managers

Number of  
full-time equivalent

B20045\_y1

a. Scientists, social scientists, engineers and researchers

**Include:** software developers and programmers

 . 

B20045\_y2

b. Senior research managers

 . 

B20045\_y3

**Total researchers and research managers**

 . 

### R&D technical, administrative and support staff

c. Technicians, technologists and research assistants

**Include:** software technicians

B20045\_y4

 . 

B20045\_y5

d. Other R&D technical, administrative and support staff

 . 

B20045\_y6

**Total R&D technical, administrative and support staff**

 . 

### Other R&D occupations

e. On-site R&D consultants and contractors

B20045\_y7

 . 

B20040

**Total in-house R&D personnel in Canada (sum of questions a. to e.)**

 . 

Percentage

B20046

15. Of this organization's **total in-house R&D personnel** reported above, what percentage performed software-related activities?

   %

If precise figures are not available, please provide your best estimate.

Report '0' if **not applicable**.

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16. In 2015, how were the **total in-house R&D personnel** distributed by province or territory?

Please report in full time equivalents (FTE).

If precise figures are not available, please provide your best estimate.

Report '0' if **not applicable**.

	Number of researchers and research managers	Number of R&D technical, administrative and support staff	Number of on-site R&D consultants and contractors
a. Newfoundland and Labrador . . . . .	B20047_g1 <input type="text"/> . <input type="text"/>	B20048_g1 <input type="text"/> . <input type="text"/>	B20049_g1 <input type="text"/> . <input type="text"/>
b. Prince Edward Island . . . . .	B20047_g2 <input type="text"/> . <input type="text"/>	B20048_g2 <input type="text"/> . <input type="text"/>	B20049_g2 <input type="text"/> . <input type="text"/>
c. Nova Scotia . . . . .	B20047_g3 <input type="text"/> . <input type="text"/>	B20048_g3 <input type="text"/> . <input type="text"/>	B20049_g3 <input type="text"/> . <input type="text"/>
d. New Brunswick . . . . .	B20047_g4 <input type="text"/> . <input type="text"/>	B20048_g4 <input type="text"/> . <input type="text"/>	B20049_g4 <input type="text"/> . <input type="text"/>
e. Quebec . . . . .	B20047_g5 <input type="text"/> . <input type="text"/>	B20048_g5 <input type="text"/> . <input type="text"/>	B20049_g5 <input type="text"/> . <input type="text"/>
f. Ontario . . . . .	B20047_g6 <input type="text"/> . <input type="text"/>	B20048_g6 <input type="text"/> . <input type="text"/>	B20049_g6 <input type="text"/> . <input type="text"/>
g. Manitoba . . . . .	B20047_g7 <input type="text"/> . <input type="text"/>	B20048_g7 <input type="text"/> . <input type="text"/>	B20049_g7 <input type="text"/> . <input type="text"/>
h. Saskatchewan . . . . .	B20047_g8 <input type="text"/> . <input type="text"/>	B20048_g8 <input type="text"/> . <input type="text"/>	B20049_g8 <input type="text"/> . <input type="text"/>
i. Alberta . . . . .	B20047_g9 <input type="text"/> . <input type="text"/>	B20048_g9 <input type="text"/> . <input type="text"/>	B20049_g9 <input type="text"/> . <input type="text"/>
j. British Columbia . . . . .	B20047_g10 <input type="text"/> . <input type="text"/>	B20048_g10 <input type="text"/> . <input type="text"/>	B20049_g10 <input type="text"/> . <input type="text"/>
k. Yukon . . . . .	B20047_g11 <input type="text"/> . <input type="text"/>	B20048_g11 <input type="text"/> . <input type="text"/>	B20049_g11 <input type="text"/> . <input type="text"/>
l. Northwest Territories . . . . .	B20047_g12 <input type="text"/> . <input type="text"/>	B20048_g12 <input type="text"/> . <input type="text"/>	B20049_g12 <input type="text"/> . <input type="text"/>
m. Nunavut . . . . .	B20047_g13 <input type="text"/> . <input type="text"/>	B20048_g13 <input type="text"/> . <input type="text"/>	B20049_g13 <input type="text"/> . <input type="text"/>
<b>Total in-house R&amp;D personnel within Canada</b>	B20050 <input type="text"/> . <input type="text"/>	B20060 <input type="text"/> . <input type="text"/>	B20070 <input type="text"/> . <input type="text"/>
	▲ <b>Should equal total researchers and research managers from question 14</b>	▲ <b>Should equal total R&amp;D technical, administrative and support staff from question 14</b>	▲ <b>Should equal total on-site consultants and contractors from question 14</b>

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## Technology or technical assistance payments in 2015

17. In 2015, how much did this organization pay to other organizations for technology and technical assistance?

Report all amounts in thousands of Canadian dollars.

Report '0' for no R&D expenditures.

### Payments to members, affiliated companies or organizations

- a. Patents .....
- b. Copyrights .....
- c. Trademarks .....
- d. Industrial designs .....
- e. Integrated circuit topography .....
- f. Original software .....
- g. Packaged or off-the-shelf software .....
- h. Databases (useful life exceeding one year) .....
- i. Other  
**Include:** technical assistance, industrial processes and know-how .....

### Payments made within Canada

CAN\$ '000

E46099\_pc1  
\$  ,000

E46099\_pc2  
\$  ,000

E46099\_pc3  
\$  ,000

E46099\_pc4  
\$  ,000

E46099\_pc5  
\$  ,000

E46099\_pc6  
\$  ,000

E46099\_pc7  
\$  ,000

E46099\_pc8  
\$  ,000

E46099\_pc9  
\$  ,000

### Payments made outside Canada

CAN\$ '000

E43043\_pc1  
\$  ,000

E43043\_pc2  
\$  ,000

E43043\_pc3  
\$  ,000

E43043\_pc4  
\$  ,000

E43043\_pc5  
\$  ,000

E43043\_pc6  
\$  ,000

E43043\_pc7  
\$  ,000

E43043\_pc8  
\$  ,000

E43043\_pc9  
\$  ,000

**Total payments made to members, affiliated companies or organizations (sum of questions a. to i.)**

E46220  
\$  ,000

E43040  
\$  ,000

### Payments to other organizations, companies or individuals

- j. Patents .....
- k. Copyrights .....
- l. Trademarks .....
- m. Industrial designs .....
- n. Integrated circuit topography .....
- o. Original software .....
- p. Packaged or off-the-shelf software .....
- q. Databases (useful life exceeding one year) .....
- r. Other  
**Include:** technical assistance, industrial processes and know-how .....

E46101\_pc1  
\$  ,000

E46101\_pc2  
\$  ,000

E46101\_pc3  
\$  ,000

E46101\_pc4  
\$  ,000

E46101\_pc5  
\$  ,000

E46101\_pc6  
\$  ,000

E46101\_pc7  
\$  ,000

E46101\_pc8  
\$  ,000

E46101\_pc9  
\$  ,000

E43044\_pc1  
\$  ,000

E43044\_pc2  
\$  ,000

E43044\_pc3  
\$  ,000

E43044\_pc4  
\$  ,000

E43044\_pc5  
\$  ,000

E43044\_pc6  
\$  ,000

E43044\_pc7  
\$  ,000

E43044\_pc8  
\$  ,000

E43044\_pc9  
\$  ,000

**Total payments made to other organizations, companies or individuals (sum of questions j. to r.)**

E46230  
\$  ,000

E43050  
\$  ,000

**Total payments made to other organizations for technology and technical assistance (sum of questions a. to r.)**

E46260  
\$  ,000

E43060  
\$  ,000

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18. In 2015, how much did this organization receive from other organizations for technology and technical assistance?

Report all amounts in thousands of Canadian dollars.

Report '0' for no R&D expenditures.

**Payments received from members, affiliated companies or organizations**

- a. Patents .....
- b. Copyrights .....
- c. Trademarks .....
- d. Industrial designs .....
- e. Integrated circuit topography .....
- f. Original software .....
- g. Packaged or off-the-shelf software .....
- h. Databases (useful life exceeding one year) .....
- i. Other  
**Include:** technical assistance, industrial processes and know-how .....

**Payments received from within Canada**

CAN\$ '000

E46102\_pc1 \$  ,000

E46102\_pc2 \$  ,000

E46102\_pc3 \$  ,000

E46102\_pc4 \$  ,000

E46102\_pc5 \$  ,000

E46102\_pc6 \$  ,000

E46102\_pc7 \$  ,000

E46102\_pc8 \$  ,000

E46102\_pc9 \$  ,000

E46240 \$  ,000

**Payments received from outside Canada**

CAN\$ '000

E63042\_pc1 \$  ,000

E63042\_pc2 \$  ,000

E63042\_pc3 \$  ,000

E63042\_pc4 \$  ,000

E63042\_pc5 \$  ,000

E63042\_pc6 \$  ,000

E63042\_pc7 \$  ,000

E63042\_pc8 \$  ,000

E63042\_pc9 \$  ,000

E63030 \$  ,000

**Total payments received from members, affiliated companies or organizations (sum of questions a. to i.)**

**Payments received from other organizations, companies or individuals**

- j. Patents .....
- k. Copyrights .....
- l. Trademarks .....
- m. Industrial designs .....
- n. Integrated circuit topography .....
- o. Original software .....
- p. Packaged or off-the-shelf software .....
- q. Databases (useful life exceeding one year) .....
- r. Other  
**Include:** technical assistance, industrial processes and know-how .....

E46103\_pc1 \$  ,000

E46103\_pc2 \$  ,000

E46103\_pc3 \$  ,000

E46103\_pc4 \$  ,000

E46103\_pc5 \$  ,000

E46103\_pc6 \$  ,000

E46103\_pc7 \$  ,000

E46103\_pc8 \$  ,000

E46103\_pc9 \$  ,000

E63043\_pc1 \$  ,000

E63043\_pc2 \$  ,000

E63043\_pc3 \$  ,000

E63043\_pc4 \$  ,000

E63043\_pc5 \$  ,000

E63043\_pc6 \$  ,000

E63043\_pc7 \$  ,000

E63043\_pc8 \$  ,000

E63043\_pc9 \$  ,000

**Total payments received from other organizations, companies or individuals (sum of questions j. to r.)**

E46250 \$  ,000

E63040 \$  ,000

**Total payments received from other organizations for technology and technical assistance (sum of questions a. to r.)**

E46270 \$  ,000

E63050 \$  ,000

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**ENERGY-RELATED R&D BY AREA OF TECHNOLOGY**

19. In 2015, did this organization's **total in-house and outsourced** (contracted out or granted) **R&D expenditures** include **energy-related R&D** in the following categories?

- |                               |                                      |
|-------------------------------|--------------------------------------|
| 1. Fossil fuels               | 5. Hydrogen and fuel cells           |
| 2. Renewable energy resources | 6. Energy efficiency                 |
| 3. Nuclear fission and fusion | 7. Other energy-related technologies |
| 4. Electric power             |                                      |

**Yes** → Please provide details below

**No** → Go to question 20

**2015 in-house energy-related R&D expenditures  
(by this reporting unit)**

Energy-related R&D by area of technology  
(consult the reporting guide at [www.statcan.gc.ca/guides-e](http://www.statcan.gc.ca/guides-e) for further information and definitions)

**A**  
Funds from this  
organization

**B**  
Funds from federal or  
provincial government(s)

**C**  
All other Canadian  
sources of funds

**CANS '000**

**1. Fossil fuels**

	E64052_e1_y1	E64053_e1_y1	E64054_e1_y1
a) Crude oils and natural gas exploration	\$ ,000	\$ ,000	\$ ,000
b) Crude oils and natural gas production and storage <b>Include:</b> enhanced recovery natural gas production	\$ ,000	\$ ,000	\$ ,000
c) Oil sands and heavy crude oil surface and sub-surface production and separation of bitumen, tailings management	\$ ,000	\$ ,000	\$ ,000
d) Refining, processing and upgrading of fossil fuels	\$ ,000	\$ ,000	\$ ,000
e) Coal production, separation and processing	\$ ,000	\$ ,000	\$ ,000
f) Transportation of fossil fuels	\$ ,000	\$ ,000	\$ ,000

**2. Renewable energy resources**

	E64052_e2_y1	E64053_e2_y1	E64054_e2_y1
a) Solar photovoltaics (PV)	\$ ,000	\$ ,000	\$ ,000
b) Solar thermal-power and high-temperature applications	\$ ,000	\$ ,000	\$ ,000
c) Solar heating and cooling	\$ ,000	\$ ,000	\$ ,000
d) Wind energy	\$ ,000	\$ ,000	\$ ,000
e) Bio-energy – biomass production and transport	\$ ,000	\$ ,000	\$ ,000
f) Bio-energy – biomass conversion to transportation fuel	\$ ,000	\$ ,000	\$ ,000
g) Bio-energy – biomass conversion to heat and electricity	\$ ,000	\$ ,000	\$ ,000
h) Other bio-energy	\$ ,000	\$ ,000	\$ ,000
i) Small-Hydro (less than to 10 MW)	\$ ,000	\$ ,000	\$ ,000
j) Large-Hydro (greater than or equal to 10 MW)	\$ ,000	\$ ,000	\$ ,000
k) Other renewable energy <b>Include:</b> ocean and geothermal	\$ ,000	\$ ,000	\$ ,000

2015 in-house energy-related R&D expenditures (by this reporting unit)		2015 outsourced (contracted out or granted) R&D expenditures		
D All foreign sources of funds	Total in-house (= A+B+C+D)	E Outsourced (contracted out or granted) in Canada	F Outsourced (contracted out or granted) outside Canada	Total outsourced (= E+F)
CAN\$ '000		CAN\$ '000		
<b>1. Fossil fuels</b>				
E63045_e1_y1	E45097_e1_y1	E46104_e1_y1	E43045_e1_y1	E40430_e1_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e1_y2	E45097_e1_y2	E46104_e1_y2	E43045_e1_y2	E40430_e1_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e1_y3	E45097_e1_y3	E46104_e1_y3	E43045_e1_y3	E40430_e1_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e1_y4	E45097_e1_y4	E46104_e1_y4	E43045_e1_y4	E40430_e1_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e1_y5	E45097_e1_y5	E46104_e1_y5	E43045_e1_y5	E40430_e1_y5
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e1_y6	E45097_e1_y6	E46104_e1_y6	E43045_e1_y6	E40430_e1_y6
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
<b>2. Renewable energy resources</b>				
E63045_e2_y1	E45097_e2_y1	E46104_e2_y1	E43045_e2_y1	E40430_e2_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y2	E45097_e2_y2	E46104_e2_y2	E43045_e2_y2	E40430_e2_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y3	E45097_e2_y3	E46104_e2_y3	E43045_e2_y3	E40430_e2_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y4	E45097_e2_y4	E46104_e2_y4	E43045_e2_y4	E40430_e2_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y5	E45097_e2_y5	E46104_e2_y5	E43045_e2_y5	E40430_e2_y5
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y6	E45097_e2_y6	E46104_e2_y6	E43045_e2_y6	E40430_e2_y6
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y7	E45097_e2_y7	E46104_e2_y7	E43045_e2_y7	E40430_e2_y7
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y8	E45097_e2_y8	E46104_e2_y8	E43045_e2_y8	E40430_e2_y8
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y9	E45097_e2_y9	E46104_e2_y9	E43045_e2_y9	E40430_e2_y9
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y10	E45097_e2_y10	E46104_e2_y10	E43045_e2_y10	E40430_e2_y10
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e2_y11	E45097_e2_y11	E46104_e2_y11	E43045_e2_y11	E40430_e2_y11
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000

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Energy R&D by area of technology (consult the reporting guide at www.statcan.gc.ca/guides-e for further information and definitions)	2015 in-house energy-related R&D expenditures (by this reporting unit)		
	A	B	C
	Funds from this organization	Funds from federal or provincial government(s)	All other Canadian sources of funds
CAN\$ '000			
<b>3. Nuclear fission and fusion</b>			
a) Nuclear materials exploration, mining and preparation, tailings management	E64052_e3_y1 \$ ,000	E64053_e3_y1 \$ ,000	E64054_e3_y1 \$ ,000
b) Nuclear reactors	E64052_e3_y2 \$ ,000	E64053_e3_y2 \$ ,000	E64054_e3_y2 \$ ,000
c) Other fission	E64052_e3_y3 \$ ,000	E64053_e3_y3 \$ ,000	E64054_e3_y3 \$ ,000
d) Fusion	E64052_e3_y4 \$ ,000	E64053_e3_y4 \$ ,000	E64054_e3_y4 \$ ,000
<b>4. Electric power</b>			
a) Electric power generation in utility sector	E64052_e4_y1 \$ ,000	E64053_e4_y1 \$ ,000	E64054_e4_y1 \$ ,000
b) Electric power - combine heat and power in industry, buildings	E64052_e4_y2 \$ ,000	E64053_e4_y2 \$ ,000	E64054_e4_y2 \$ ,000
c) Electricity transmission, distribution and storage	E64052_e4_y3 \$ ,000	E64053_e4_y3 \$ ,000	E64054_e4_y3 \$ ,000
<b>5. Hydrogen and fuel cells</b>			
a) Hydrogen production for process applications	E64052_e5_y1 \$ ,000	E64053_e5_y1 \$ ,000	E64054_e5_y1 \$ ,000
b) Hydrogen production for transportation applications	E64052_e5_y2 \$ ,000	E64053_e5_y2 \$ ,000	E64054_e5_y2 \$ ,000
c) Hydrogen transport and storage	E64052_e5_y3 \$ ,000	E64053_e5_y3 \$ ,000	E64054_e5_y3 \$ ,000
d) Other hydrogen	E64052_e5_y4 \$ ,000	E64053_e5_y4 \$ ,000	E64054_e5_y4 \$ ,000
e) Stationary fuel cells	E64052_e5_y5 \$ ,000	E64053_e5_y5 \$ ,000	E64054_e5_y5 \$ ,000
f) Mobile fuel cells	E64052_e5_y6 \$ ,000	E64053_e5_y6 \$ ,000	E64054_e5_y6 \$ ,000
<b>6. Energy efficiency</b>			
a) Energy efficiency applications for industry	E64052_e6_y1 \$ ,000	E64053_e6_y1 \$ ,000	E64054_e6_y1 \$ ,000
b) Energy efficiency for residential, institutional and commercial sectors	E64052_e6_y2 \$ ,000	E64053_e6_y2 \$ ,000	E64054_e6_y2 \$ ,000
c) Energy efficiency for transportation	E64052_e6_y3 \$ ,000	E64053_e6_y3 \$ ,000	E64054_e6_y3 \$ ,000
d) Other energy efficiency	E64052_e6_y4 \$ ,000	E64053_e6_y4 \$ ,000	E64054_e6_y4 \$ ,000
<b>7. Other energy-related technologies</b>			
a) Carbon capture, transport and storage related to fossil fuel production and processing	E64052_e7_y1 \$ ,000	E64053_e7_y1 \$ ,000	E64054_e7_y1 \$ ,000
b) Carbon capture, transport and storage related to electric power production	E64052_e7_y2 \$ ,000	E64053_e7_y2 \$ ,000	E64054_e7_y2 \$ ,000
c) Carbon capture, transport and storage related to industry in end-use sector	E64052_e7_y3 \$ ,000	E64053_e7_y3 \$ ,000	E64054_e7_y3 \$ ,000
d) Energy system analysis	E64052_e7_y4 \$ ,000	E64053_e7_y4 \$ ,000	E64054_e7_y4 \$ ,000
e) All other energy-related technologies	E64052_e7_y5 \$ ,000	E64053_e7_y5 \$ ,000	E64054_e7_y5 \$ ,000

2015 in-house energy-related R&D expenditures (by this reporting unit)		2015 outsourced (contracted out or granted) R&D expenditures		
D	Total in-house (= A+B+C+D)	E	F	Total outsourced (= E+F)
All foreign sources of funds		Outsourced (contracted out or granted) in Canada	Outsourced (contracted out or granted) outside Canada	
CAN\$ '000		CAN\$ '000		
<b>3. Nuclear fission and fusion</b>				
E63045_e3_y1	E45097_e3_y1	E46104_e3_y1	E43045_e3_y1	E40430_e3_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e3_y2	E45097_e3_y2	E46104_e3_y2	E43045_e3_y2	E40430_e3_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e3_y3	E45097_e3_y3	E46104_e3_y3	E43045_e3_y3	E40430_e3_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e3_y4	E45097_e3_y4	E46104_e3_y4	E43045_e3_y4	E40430_e3_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
<b>4. Electric power</b>				
E63045_e4_y1	E45097_e4_y1	E46104_e4_y1	E43045_e4_y1	E40430_e4_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e4_y2	E45097_e4_y2	E46104_e4_y2	E43045_e4_y2	E40430_e4_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e4_y3	E45097_e4_y3	E46104_e4_y3	E43045_e4_y3	E40430_e4_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
<b>5. Hydrogen and fuel cells</b>				
E63045_e5_y1	E45097_e5_y1	E46104_e5_y1	E43045_e5_y1	E40430_e5_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e5_y2	E45097_e5_y2	E46104_e5_y2	E43045_e5_y2	E40430_e5_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e5_y3	E45097_e5_y3	E46104_e5_y3	E43045_e5_y3	E40430_e5_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e5_y4	E45097_e5_y4	E46104_e5_y4	E43045_e5_y4	E40430_e5_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e5_y5	E45097_e5_y5	E46104_e5_y5	E43045_e5_y5	E40430_e5_y5
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e5_y6	E45097_e5_y6	E46104_e5_y6	E43045_e5_y6	E40430_e5_y6
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
<b>6. Energy efficiency</b>				
E63045_e6_y1	E45097_e6_y1	E46104_e6_y1	E43045_e6_y1	E40430_e6_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e6_y2	E45097_e6_y2	E46104_e6_y2	E43045_e6_y2	E40430_e6_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e6_y3	E45097_e6_y3	E46104_e6_y3	E43045_e6_y3	E40430_e6_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e6_y4	E45097_e6_y4	E46104_e6_y4	E43045_e6_y4	E40430_e6_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
<b>7. Other energy-related technologies</b>				
E63045_e7_y1	E45097_e7_y1	E46104_e7_y1	E43045_e7_y1	E40430_e7_y1
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e7_y2	E45097_e7_y2	E46104_e7_y2	E43045_e7_y2	E40430_e7_y2
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e7_y3	E45097_e7_y3	E46104_e7_y3	E43045_e7_y3	E40430_e7_y3
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e7_y4	E45097_e7_y4	E46104_e7_y4	E43045_e7_y4	E40430_e7_y4
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000
E63045_e7_y5	E45097_e7_y5	E46104_e7_y5	E43045_e7_y5	E40430_e7_y5
\$ ,000	\$ ,000	\$ ,000	\$ ,000	\$ ,000

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## Reporting changes and events that affected this business or organization

20. Indicate any reason(s) that may have affected the reported values for this business or organization compared to the last reporting period.

Select all that apply.

B00316\_r1

Outsourcing of R&D project(s)

B00316\_r2

Initiation of new R&D project(s)

B00316\_r3

Completion of existing R&D project(s)

B00316\_r4

Major change in funding of R&D project(s) (loss of funding)

B00316\_r5

Major change in funding of R&D project(s) (increase in funding)

B00316\_r6

Organizational change that affected R&D activities (expansion, reduction, restructuring)

B00316\_r7

Economic change that affected R&D activities

B00316\_r11

Lack of availability of qualified R&D personnel

B00316\_r8

Other reason — specify:

B00316\_r9

B00316\_r10

No changes or events

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## General information

### Confidentiality

#### Your answers are confidential.

Statistics Canada is prohibited by law from releasing any information it collects which could identify any person, business, or organization, unless consent has been given by the respondent or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survey for statistical purposes.

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

### Provincial and territorial statistical agencies

**Section 11** of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information on in-house research and development expenditures (Question 9) and in-house research and development personnel (Question 16) pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Section 12** of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, the Northwest Territories and Nunavut. The shared data will be limited to information on in-house research and development expenditures (Question 9) and in-house research and development personnel (Question 16) pertaining to business establishments located within the jurisdiction of the respective province or territory.

### Natural Resources Canada

For respondents with expenditures on energy-related research and development in technology (fossil fuels, renewable energy resources, nuclear fission and fusion, electric power, hydrogen and fuel cells, energy efficiency, other energy-related technologies), Statistics Canada will also share survey data with the Office of Energy Research and Development (OERD) of Natural Resources Canada. The shared data will be limited to information on Energy Research and Development Expenditures by Area of Technology (Question 19).

You may refuse to share your information with this organization by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire.

### Record linkages

To enhance the data from this survey and to minimize the reporting burden, Statistics Canada may combine it with information from other surveys or from administrative sources.

**Thank you for completing this questionnaire.**

**Please retain a copy for your records.**

**Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)**