

Select language:

English

# Survey of Science and Technology 2015: Research and Development - Public Sector

Select language:

English



**Purpose** – This survey collects data that will be used to estimate the resources dedicated to Research and Development in Puerto Rico. It will also be used for the FY 2014 and FY 2015 Survey of State Government R&D of the U.S. Census Bureau and of the National Science Foundation.

**Definitions** – Please read the definitions and instructions provided in the supporting document before giving your answers. These can help you to better understand the information that is being requested. (DOWNLOAD SUPPORTING DOCUMENT - PDF) (<http://finanzasfae.uprrp.edu/wp-content/uploads/2015/10/Supporting-Document-RD-Government.pdf>)

**Questions** – If you have any questions, please contact: Dr. Manuel Lobato at 787-764-0000 Ext. 87262 or through [manuel.lobato@upr.edu](mailto:manuel.lobato@upr.edu).

**THE INFORMATION YOU PROVIDE IN THIS FORM IS CONFIDENTIAL** and is protected under Act 209 of 2003, as amended. Data provided in this form will be used only for statistical analysis by the Puerto Rico Institute of Statistics, the U.S. Census Bureau and of the National Science Foundation and will not be shared with any other public or private entity. The results of the study will be published in a final report, which will be made available to you as a participant in this survey.

**THANK YOU** for your cooperation. Your response is very important to the success of this study.

There are 37 questions in this survey.

## Contact Information

1. Respondent Name:

**Title:**

**Telephone:**

**Email:**

\*

**Agency:**

**2. Level of government**

Choose one of the following answers

- Federal
- Commonwealth of Puerto Rico
- Municipal
- Non-for-profit controlled and mainly financed by government
- No answer

**2b. When did your state agency's Fiscal Year end?**

Choose one of the following answers

- June 30, 2015
- September 30, 2015
- December 31, 2015
- Other:
- No answer

**Note:** For the rest of this survey, we will refer to this Fiscal Year as FY 2015.

## R&D Activites

\*

Research and Experimental Development (R&D), for the purposes of this survey, is defined as creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

R&D covers both formal R&D and informal or occasional R&D.

The term R&D covers three activities:

- **Basic research:** experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundation of phenomena and observable facts, without any particular application or use in view.
- **Applied research:** original investigation undertaken in order to acquire new knowledge, which differs from basic research in that it is directed primarily towards a specific practical aim or objective.
- **Experimental development:** systematic work, drawing on existing knowledge gained from research and/or practical experience, which is directed to producing new materials, products or devices, to installing new processes, systems and services, or to improving substantially those already produced or installed.

For the purposes of this survey, the term R&D does not cover activities lacking an appreciable element of novelty or routine or activities that do not lead to the resolution of scientific and/or technological uncertainty. (The Supporting Document of this Questionnaire provides further detail as to the inclusion or exclusion of specific activities: [DOWNLOAD SUPPORTING DOCUMENT - PDF \(http://finanzasfae.uprrp.edu/wp-content/uploads/2016/04/Support-Document-RD-Survey.pdf\)](http://finanzasfae.uprrp.edu/wp-content/uploads/2016/04/Support-Document-RD-Survey.pdf)) (<http://finanzasfae.uprrp.edu/wp-content/uploads/2015/10/Definitions-and-Examples-RD-Government.pdf>)

**3. According to the above definition, did your agency performed or funded Research and Development (R&D) activities in Puerto Rico during fiscal year 2015?**

Yes	No
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## Expenditures for R&D Performed Externally (External R&D)

\*

**13. Did your agency fund Research and Development activities (external R&D) during fiscal year 2015?**

Yes	No
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**16. In 2015, did your agency engage in Research and Development activities as part of an alliance, *joint venture*, or other collaborative arrangement with other organizations?**

Yes	No	No answer
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## Total R&D Expenditures by Function

**17. Have Research and Development activities in any of the following areas been performed within your agency?**

Please specify their proportion over the total R&D expenditures.

	FY 2014 (Percentage)	FY 2015 (Percentage)
Natural sciences	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Engineering and technology	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Medical sciences	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Agricultural sciences	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Social sciences	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Humanities	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Other	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>

If answer "other", please specify the area:

Specific areas:

	FY 2014 (Percentage)	FY 2015 (Percentage)
Percentage Information and Communication Technologies (ICT)	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Nanotechnology	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>
Biotechnology	FY 2014 (Percentage) <input type="text"/>	FY 2015 (Percentage) <input type="text"/>

**17b. Of the total expenditures, how much was for:**

	FY 2014	FY 2015
Exploration and exploitation of the Earth	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Infrastructure and general planning of land use	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Control and care of the environment	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Protection and improvement of human health	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Production, distribution and rational utilization of energy	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Agricultural production and technology	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Industrial production and technology	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Social structures and relationships	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Exploration and exploitation of space	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Non-oriented research	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Other civil research	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Defense	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>
Transportation	FY 2014 <input type="text"/>	FY 2015 <input type="text"/>

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# Resources Dedicated to R&D Activities

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English



The research team for this survey will be available at (787) 764-0000 x87262 and through this email: [manuel.lobato@upr.edu](mailto:manuel.lobato@upr.edu) (mailto:manuel.lobato@upr.edu), to answer questions related to the questionnaire. We would like to remind you that all information you provide in this form is confidential and is protected under Act 209 of 2003, as amended.

**THANK YOU** for your cooperation. Your response is very important to the success of this study.

In the following link you can access a supporting document with definitions and examples:

(SUPPORTING DOCUMENT - PDF) (<http://finanzasfae.uprrp.edu/wp-content/uploads/2016/04/Support-Document-RD-Survey.pdf>)

There are 22 questions in this survey.

## INFORMATION ABOUT RESEARCH AND DEVELOPMENT (R&D) ACTIVITIES IN YOUR ORGANIZATION

\* Name of the Organization

# Information on employees dedicated to R&D activities in your organization.

Please complete the following tables with information about the **number of people who performed Research and Development activities in your organization in Puerto Rico during fiscal year 2014-15**. Include independently contracted external consultants, but do not include personnel employed by consulting firms or other companies that provide R&D services to your organization.

[See supporting document for details regarding who to consider as R&D personnel. Download: SUPPORTING DOCUMENT - PDF] (<http://finanzasfae.uprrp.edu/wp-content/uploads/2016/04/Support-Document-RD-Survey.pdf>)

	Total	Women	Men
<b>Researchers (includes scientists, engineers, personnel who manage or coordinate R&amp;D tasks, and research assistants)</b> Total	<input type="text"/>	Women <input type="text"/>	Men <input type="text"/>
Technicians Total	<input type="text"/>	Women <input type="text"/>	Men <input type="text"/>
Office staff and other auxiliary personnel Total	<input type="text"/>	Women <input type="text"/>	Men <input type="text"/>

## Time in R&D activities

Researchers Average number of hours per week dedicated to R&D activities (per person)	<input type="text"/>
Technicians Average number of hours per week dedicated to R&D activities (per person)	<input type="text"/>
Office staff and other auxiliary personnel Average number of hours per week dedicated to R&D activities (per person)	<input type="text"/>

Please complete the following tables with information about the profile of **researchers** who performed **Research and Development activities** in your organization in Puerto Rico during **fiscal year 2014-15**.

Full time employees Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
Part time employees Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
External consultant Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>

**Researchers' education level**

(highest level of education completed)

	Number of researchers [Don't include technicians and auxiliary personnel]	
Bachelor Degree	Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
Master	Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
Ph.D. or similar	Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
Medicine Doctor, Juris Doctor or similar	Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>
Other educational level (please specify below)	Number of researchers [Don't include technicians and auxiliary personnel]	<input type="text"/>

Please specify "other educational level":

Please complete the following tables with information about the **number of people who performed Research and Development activities in your organization in Puerto Rico during fiscal year 2013-14**. Include independently contracted external consultants, but do not include personnel employed by consulting firms or other companies that provide R&D services to your company.

[See supporting document for details regarding who to consider as R&D personnel. Download: SUPPORTING DOCUMENT - PDF] (<http://finanzasfae.uprrp.edu/wp-content/uploads/2016/04/Support-Documents-RD-Survey.pdf>)

	Total	Women	Men
Researchers (includes scientists, engineers, personnel who manage or coordinate R&D tasks, and research assistants)	Total <input type="text"/>	Women <input type="text"/>	Men <input type="text"/>
Technicians	Total <input type="text"/>	Women <input type="text"/>	Men <input type="text"/>
Office staff and other auxiliary personnel	Total <input type="text"/>	Women <input type="text"/>	Men <input type="text"/>

**RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES WITHIN YOUR ORGANIZATION**



Please fill in the following table with information about Research and Development (R&D) expenditures within your organization in Puerto Rico. [If exact numbers are not available, provide an estimate].


	2013-2014	2014-2015
Remuneration to researchers* (salaries, wages, other compensation, etc.)	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>
Materials purchased and other running costs related to R&D**	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>
Equipment and instruments used for R&D activities	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>
Buildings and properties used for R&D activities	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>
Other R&D expenditures (software, utilities, property and other taxes, etc.)	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>
<b>TOTAL, R&amp;D EXPENDITURES</b>	2013-2014 <input type="text"/>	2014-2015 <input type="text"/>

 \* Include fringe benefits of employees engaged in R&D in your organization.

\*\* Include contracts for the provision of services necessary to carry out R&D activities. However, exclude the purchase of R&D services, since they will be addressed in a separate question.

Please complete the following table with information about the sources of financing for Research and Development activities performed within your organization in 2014-15. [If exact numbers are not available, provide an estimate].

	Amount
Funding provided by your organization in Puerto Rico	Amount <input type="text"/>
Funding provided by agencies from the Government of Puerto Rico	Amount <input type="text"/>
Funding provided by agencies from the U.S. Federal Government	Amount <input type="text"/>
Funding provided by other entities (universities, municipal governments, etc.)	Amount <input type="text"/>
Funding provided by companies, foundations or other private entities	Amount <input type="text"/>
<b>TOTAL</b>	Amount <input type="text"/>

 \* Include only those funds specifically granted for R&D activities, or the portion of other contracts destined specifically to R&D activities.

If you received funds from the **Government of Puerto Rico**, from which agency or agencies?

Choose one of the following answers

Subsidy or donation

Contract

No answer

If you received funds from the **US Federal Government**,  
from which agency or agencies?

Choose one of the following answers

- Subsidy or donation
- Contract
- No answer

If you received funds from **other entities** (universities, municipal governments, etc.)  
Name of entity

Do you expect that R&D expenditures of your organization in Puerto Rico in **2015-16** will:

Choose one of the following answers

- Increase
- Remain the same
- Decrease
- I don't know
- No answer

What about during the **next three years** (2015-16 to 2017-18)? Expenditures in R&D will:

Choose one of the following answers

- Increase
- Remain the same
- Decrease
- I don't know
- No answer

During 2014-15 **did you purchase Research and Development services** from or fund R&D activities in other organizations (including other companies, universities and other organizations)?

Yes	No	No answer
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**The information you provide in this form is confidential and is protected under Act 209 of 2003, as amended.** Data provided in this form will be used only for statistical analysis by the Puerto Rico Institute of Statistics and will not be shared with any other public or private entity, but the Puerto Rico Institute of Statistics would like to publish a list with the name of the companies and organizations that report R&D activities in Puerto Rico and the municipality in which they are located. **Do you authorize the Puerto Rico Institute of Statistics to include the name of your organization in this list and the municipality in which it is located?**

**YES** = I authorize the Puerto Rico Institute of Statistics to include the name of my organization and the municipality in which it is located **in the list of companies that have Research and Development (R&D) activities in Puerto Rico.** That is the only information provided in this form that will be published.

**NO** = I do not authorize the Puerto Rico Institute of Statistics to include the name of my organization and the municipality in this list.

Yes	No	No answer
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**How much time did it take you to complete this questionnaire?**

Answer in hours

Comments:

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Submit

