

FORM

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

## BRDI-M (09-19-2016) Draft 13

### 11086014

## 2016 BUSINESS R&D AND INNOVATION SURVEY

OMB No. 0607-0912: Approval Expires 12/31/2018

DUE DATE:
Need help or have questions
about filling out the form?
Visit http://www.census.gov/ manufacturing/brdis Here, you can access question-by-question detailed instructions and learn more about the survey.
<b>Call</b> 1-800-772-7851, between
8:00 a.m. and 4:45 p.m. Eastern Time, Monday through Friday. Choose option '1' for English,
then option '5' to speak with a survey specialist.
Please file your form
<b>electronically</b> (see details below).
Or mail your completed form to:
U.S. CENSUS BUREAU
1201 East 10th Street Jeffersonville, IN 47132-0001

# INTERNET REPORTING OPTION AVAILABLE – We encourage you to complete this survey online at: https://econ-response.census.gov

**Authentication Code:** 

**YOUR RESPONSE IS REQUIRED BY LAW.** The survey is conducted under the authority of Title 13, United States Code, Sections 8(b), 131, and 182, and Title 42, United States Code, Sections 1861-76 (National Science Foundation Act of 1950, as amended). Title 13, United States Code, Sections 224 and 225 require businesses and other organizations that receive this questionnaire to answer the questions and return the report to the U.S. Census Bureau.

**YOUR RESPONSE IS CONFIDENTIAL BY LAW.** Title 13, United States Code, Section 9 requires that your response be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your company's files are immune from legal process.

**THIS COLLECTION HAS BEEN APPROVED** by the Office of Management and Budget (OMB). The eight-digit OMB approval number is 0607-0912 and appears at the upper right of this page. Without this approval, we could not conduct this survey.

We estimate this survey to take 15 minutes, on average, to complete. On the back of this form you will find the full burden estimate statement.

**THANK YOU – YOUR RESPONSE IS IMPORTANT.** Accurate and timely statistical information could not be produced without your continued cooperation and goodwill. Thank you.

~ This survey is jointly conducted by the U.S. Census Bureau and the National Science Foundation ~



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Α	. OVERALL COMPANY INFORMATION		B. HUMAN RESOURCES					
<ul> <li>Please use a blue or black ink pen.</li> <li>Mark X to indicate your answer.</li> <li>If you have more than one business, please respond only for the business named in the address label of the questionnaire.</li> </ul>			6. For the pay period including March 12, 2016 how many people worked for your company, including those paid through grants? Include both full-time and part-time workers as well as yourself. Please count each person only once.					
1.	Was your company a majority-owned subsidiary of a foreign company in 2016?		Owners     of people       a. Owners who received a W-2 issued by your company for salary or wages     Image: Company for the formation of the people	e				
2.	<ul> <li>No</li> <li>Did another U.S. company own more than 50</li> </ul>	)	<ul> <li>b. Other owners (paid or unpaid)         <u>Non-owners</u>         c. Employees who received a W-2 issued by your company for salary or wages         Or wages         Output         <p< th=""><th></th></p<></li></ul>					
	<ul> <li>percent of your company during 2016?</li> <li>Yes → Go to Question 44</li> <li>No</li> </ul>		d. Individuals who received payment in other ways (e.g., contractors/ consultants/ temporary workers who received a 1099 or payment from another company)					
3.	Has your company ceased operations?		e. Unpaid individuals who worked for your company (e.g., interns, friends, family members)					
	<ul> <li>Yes → Go to Question 44</li> <li>No</li> </ul>	7	7. Not counting those listed in question 6, which of the following were key people you used as advisors for your company during a past year? Yes No	the				
4.	Please describe your company's primary business activity during 2016.		a. Scientist or technical expert					
			b. Financial expert or accountant					
			c. Business expert					
5.	What year did your company start? Give the year your company first obtained an EIN		e. Individual who offered general advice					
	(Employer Identification Number) or first filed a tax return, whichever is earlier. Pleas	e	f. Legal, regulatory, or compliance expert					
	Answer for the firm identified. Year company started		g. Other (specify):					
		8	8. If your company hired an employee within the last three years, answer the following about your most recent hire: Yes No N/A					
			a. He/she performs the same tasks we performed before hiring him/her.					
			<ul> <li>b. We hired him/her to get skills we otherwise would not have had.</li> </ul>					
			c. We hired him/her to take over certain tasks.					
		ę	9. Does your company have any employees w reside outside the United States?	no				
			Yes					
			No					

	C. FINANCIAL IN	FORMATION		D. INNOVATION
10.	What was the amount of sales and revenues, inc 2016? Please round to thousand dollars. Your	luding grants, d the nearest one	luring	<ul><li>14. Did your company sell any goods or offer any services during the last three years?</li><li>Yes</li></ul>
	\$Mil. 2016 revenues		Dol.	No → Go to Question 18.
	and grants	0	00	15. During the last three years, did your company
	<ul> <li>Approximately what sh 2016 revenues and grat following?</li> <li>a. Selling goods to custon including other compan</li> <li>b. Selling services to custor</li> </ul>	nts came from t ners, ies		do the following regarding the introduction of a good or service your company offers? The new good or service should be new or significantly improved with respect to its characteristics or intended uses. Do <u>not</u> include adaptation or customization of your company's goods or services for a specific
	including other compan		70	client's needs. Yes No
	c. Licensing		%	a. Offered a new good or service that no company has ever offered before
	d. Grants		%	b. Offered a new good or service that your company has never offered before
	e. Other (specify):	TOTAL	<b>%</b> = 100%	c. Significantly improved a good or service's performance by making changes in materials, equipment, components or software
12.	Approximately what pe for 2016 were from cus States and its territorie	stomers in the U	Inited	<ul> <li>d. Developed a new use for one of your goods or services with only</li> <li>minor changes to its technical specifications</li> </ul>
13.	Percent of revenues	company try to e	aet	e. Added a new feature to one of your goods or services that enhance the performance of your company's goods or services
	funding (e.g., loans, inv from the sources listed	vestments, or git below? Yes, tried Yes, but did	<b>fts)</b> No,	f. Made it significantly easier for customers to use one of your goods or services (e.g., easier access, more user friendly)
		got <u>not</u> get funding funding	try	16. During the last three years, did your company do the following regarding the production or
	<ul> <li>Owners' personal assets or credits</li> </ul>			delivery method for the goods or services your company offers?
	b. Banks or credit unions			a. Used a new way of purchasing, Yes No accounting, computing,
	c. Friends or relatives			maintenance, inventory control, or other support activities to produce or deliver your goods or services
	d. Angel investors			b. Used a new way to distribute your
	e. Venture capital or private equity			goods or services to reduce costs
	f. Federal government's Small Business Technology Transfer			or software that are new to your firm to significantly improve the goods or services you offer
	Program (STTR) or Small Business Innovati Research Program (SBIF or other grants			<ul> <li>Made significant improvements</li> <li>in techniques or processes by</li> <li>increasing automation, decreasing</li> <li>energy consumption, or using</li> <li>software</li> </ul>
	<ul> <li>g. Crowdfunding (such as through Indiegogo or Kickstarter)</li> <li>b. Other (apositiv):</li> </ul>			e. Decreased production costs by significantly improving the materials, components, or
	h. Other (specify):			software inputs
				f. Changed methods to deliver your company's goods or services faster or more reliably

17. During the last three years, did your company do the following regarding	E. INTELLECTUAL PROPERTY					
significant changes in product design or packaging, product placement, product promotion or pricing?	19. How many U.S. patent applications, if any, does your company currently have pending? If none, enter zero.					
a. Made significant changes to the design or packaging of a good or service other than changes that alter how it is used	Number of U.S. patent applications currently pending					
<ul> <li>b. Promoted your company's goods or services in a way that represents a significant departure from your company's existing marketing methods</li> </ul>	20. How many U.S. patents does your company currently own? If none, enter zero.         Number of U.S. patents owned					
c. Used new ways to sell your company's goods or services (e.g., first time use of franchising or distribution licenses, direct selling, exclusive retailing, new	<ul> <li>21. Please indicate whether or not your company did each of the following during the last three years.</li> <li>a. Transferred intellectual property Yes No</li> </ul>					
concepts for presentation of your goods or services) d. Used new pricing methods or strategies to market your company's goods and services	(IP) to others not owned by your company through participation in technical assistance or "know how" agreements					
e. Created or opened up a new market for your company's goods	<ul> <li>b. Received IP from others not owned by your company through participation in</li> <li>technical assistance or "know how" agreements</li> </ul>					
<ul> <li>18. During the last three years, did your company do the following regarding significant changes in your company's business practices, workplace organization or external relations?</li> <li>a. Implemented new methods to improve internal processes or Yes No</li> </ul>	c. Participated in cross-licensing agreements in which two or more parties grant a license to each other for the use of the subject matter claimed in one or more of the patents owned by each party					
deliver goods or services (e.g., introduce supply chain management systems or business re-engineering, lean production and quality management systems)	<ul> <li>Allowed free use of patents or other IP owned by your company (e.g., allowing free use of software patents by the open source community)</li> </ul>					
<ul> <li>Applied new methods or processes to improve workplace organization (e.g., education and training systems</li> </ul>	e. Made use of open source patents or other freely available IP not owned by your company					
to improve learning and sharing, implement changes in workplace responsibilities or	22. During the last three years, how important were the following?					
authority of managers and employees)	a. Utility patents (patents					
c. Started a new way of interacting with other firms or organizations (e.g., alliances,	for inventions)					
partnerships, outsourcing, subcontracting)	c. Trademarks					
	d. Copyrights					
	e. Trade secrets					
	f. Nondisclosure agreements					

F. RESEARCH AND DEVELOPME Research and development (R&D) com	prise	26.	Of the total R&D amount you re Question 25, what percent was the following types of costs?	
creative and systematic work undertal to increase the stock of knowledge an new applications of available knowled	d to devise		<ul> <li>Salaries, wages, and fringe benefits for company's employees</li> </ul>	<b>%</b>
23. During 2016, did your company de following R&D activities? Include that:	o any of the activities		b. Equipment	<u> </u>
<ul> <li>Your company performed</li> <li>Others paid your company to determine the second sec</li></ul>			<ul><li>c. Software purchases and licenses</li><li>d. Other costs (e.g., consultants,</li></ul>	
• Your company paid others to d	<b>o</b> Yes No		contractors, travel, rent)	%
a. Conducted work that might lead to a patent				TOTAL = 1009
<ul> <li>Developed and tested prototypes, services, or processes that were derived from scientific research</li> </ul>		27.	Of the total R&D amount you re Question 25, how much was pa the following sources?	id for by
or technical findings c. Developed software that advanced scientific or technological knowledge			<ul><li>a. Your U.S. company</li><li>b. Your foreign owner (if your</li></ul>	<u> </u>
<ul> <li>d. Produced findings that could be published in academic journals or presented at scientific conferences</li> </ul>			company is foreign owned) c. Another U.S. company	
e. Applied scientific or technical knowledge in a way that has never been done before			d. U.S. university or college	<b>%</b>
<ul> <li>f. Created new scientific or technical solutions that can be generalized to other situations</li> </ul>			<ul><li>e. U.S. non-profit organization</li><li>f. U.S. Federal government</li></ul>	<u>%</u>
<ul> <li>g. Conducted work to discover previously unknown technological facts, structures, or relationships</li> </ul>			(including R&D grants) g. U.S. State or Local government	<u> </u>
<ul> <li>h. Conducted work to extend the understanding of scientific facts, relationships or principles in ways that could be useful to others</li> </ul>			(not including state universities) h. Other (specify):	
24. Did you answer "Yes" to <u>any</u> activ Question 23?	rities in			TOTAL = 1009
Yes		28.	Of the total R&D amount you re Question 25, how much was for categories?	
<ul> <li>No → Go to Question 30.</li> <li>25. What was the total cost (both direindirect) in thousands in 2016 for activities you answered "Yes" to 23? Your best estimate is fine. Plea all costs:         <ul> <li>Salaries, wages, fringe benefits</li> <li>Equipment, materials, supplies,</li> <li>Rent, utilities</li> <li>Consultants, contractors</li> </ul> </li> <li>Total cost for R&amp;D activities reported in Question 23 for 2016</li> </ul>	all the R&D in Question ease include		<ul> <li>a. Basic Research - activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses</li> <li>b. Applied Research - activities aimed at solving a specific problem or meeting a specific commercial objective</li> <li>c. Development - systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes</li> </ul>	<b>000%</b> <b>000%</b> TOTAL = 100%

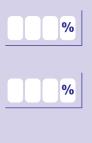
% % % %

TOTAL = 100%

#### ount you reported in uch was paid for by s?

a.	Your U.S. company	%
b.	Your foreign owner (if your company is foreign owned)	<b>%</b>
c.	Another U.S. company	
d.	U.S. university or college	%
e.	U.S. non-profit organization	<b>%</b>
f.	U.S. Federal government (including R&D grants)	<b>%</b>
g.	U.S. State or Local government (not including state universities)	
h.	Other (specify):	
		TOTAL = 100%

- ount you reported in uch was for the following
  - tivities ew tanding ediate ons or uses
  - activities pecific a specific
  - ematic search nce and ٩l directed oducts or oving processes





TOTAL = 100%



29.	ac pa a.	ow many people wor tivities you reported by period that include Owners Employees who receive issued by your compar salary or wages	l <b>in Ques</b> ed Marc	stion 23 fo		32.		ere would you like for n five years? Check Company will have a employees Company will have a number of employee Company will be put	<b>all tha</b> larger bout thes as it	nt <b>apply.</b> number ne same has curre	of ntly
		Other paid workers (e. contractors, consultant temporary workers)						company Uncertain Other (specify):			
		Unpaid workers Total									
	G	. YOUR COMPAN	IY STR	ATEGIE	S			H. ABOUT TH	E OW	NER	
30.	ho	ow important is each ow your company see lvantage?	eks a co Very	following i mpetitive Somewhat important im	Not	ans for	wer the d	company has more the for the owner with t direction of the com v important to you a	he mo pany.	st respo	
	a.	Your low prices				00.		owing reasons for o			• •
	b.	The quality of your goods services					a \	i Nanted to be my		important	
	C.	Your unique goods/services					C	own boss			
	d.	The convenience you offer						Flexible hours			
	e.	Your reputation					Ç	greater income			
	f.	Please list any other im your company seeks a						Best avenue for my deas/goods/services			
								lad to start company o find work			
								Please list any other imp our own company:	ortant ı	reasons fo	r owning
31.		ow important is each our company's future			to						
	-		Very		Not portant						
	a.	Updating or improving an existing good or service				34.		proximately, how ma			
	b.	Developing a good or service that will save customers' money					hou	you work at this con Irs whether paid or u			all
	C.	Developing a good or service that will improve current customers' experience				35.		his the first company	you s	started?	
	d.	Having a formal business strategic plan in writing						Not applicable: I did not start this compare	ıy →	Go Questio	
	e.	Partnerships with other businesses						Yes			
	f.	Partnerships with one or more universities						No			
	g.	Providing customized goods or services									

36.	que	including the company discussed in this stionnaire, what is the status of the pany you started most recently?	39.	Are	you Hispanic or Latino? Yes
		Company is still in business and I still own it			No
		Company is no longer in business	40.	Wha	nt is your race? <i>Please select one or more.</i>
		Company was purchased by another company			American Indian or Alaska Native
		Company was purchased by another individual			Native Hawaiian or other Pacific Islander
		Other (specify):			Asian
37.		t is the highest level of education you pleted?			Black or African-American
		Less than high school			White
		High school graduate	41.	Are	you male or female?
		Some college			Male
		Bachelor's degree			Female
		Master's degree	42.	Whe	ere were you born?
		Professional degree (e.g., JD, LLB, MD, DDS, DVN)			Inside the U.S.
		Research doctorate (e.g., PhD, DSc, EdD)			Outside the U.S.
		Other (specify):	43.	Are	you a U.S. citizen?
38.	Wha	it was the major field of study for your			Yes
		nest degree?			No
		Business management/administration			
		Communication			
		Computer science			
		Education (includes research and administration, and teaching)			
		Engineering			
		Humanities (includes history, foreign languages and literature, and letters)			
		Life sciences (includes agricultural sciences/ natural resources, biological/biomedical sciences and health sciences)			
		Mathematics			
		Physical sciences (includes astronomy, atmospheric science and meteorology, chemistry, geological and earth sciences, ocean/marine sciences, and physics)			
		Psychology			
		Social sciences			
		Other (specify):			

I. CONTACT INFORMATION			
44. Please provide the following information for the person we may contact regarding the answers to this survey.			
Name			
Title			
Talanhana			
Telephone Area Code and Phone Number Extension			
E-mail address			
Hours Minutes			
45. Approximately how long did it take to complete this survey?			
46. Enter any comments below.			
Thank you for your participation in this survey.			
We estimate this survey will take 15 minutes, on average, to complete, including the time for reviewing instructions, researching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: ECON Survey Comments 0607-0912, U.S. Census			

Bureau, 4600 Silver Hill Road, Room 6H128, Washington, DC 20233. You may e-mail comments to ERD.ALL.GEN.BRDIS@census.gov. Be sure to use ECON Survey Comments 0607-0912 as the subject.

