

U.S. DEPARTMENT OF COMMERCE U.S. CENSUS BUREAU

FORM **ABS-1** (04/04/2022)

2022 ANNUAL BUSINESS SURVEY

OMB No. 0607-1004: Approval Expires 05/31/2025

DUE DATE:

Need help or have questions?

- Visit https://www.census.gov/ abshelp
- Call 1-888-824-9954, between 8 a.m. and 8 p.m., Eastern time, Monday through Friday.

¿Necesita ayuda?

Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-888-824-9954, entre las 8 a.m. y las 8 p.m., hora del Este, de lunes a viernes.

(Please correct any errors in this mailing address.)

YOUR RESPONSE IS REQUIRED BY LAW. Title 13, United States Code, Sections 8(b), 131, and 182; Title 42, United States Code, Section 1861-76 (National Science Foundation Act of 1950, as amended); and Section 505 within the America COMPETES Reauthorization Act of 2010, authorize this collection. Sections 224 and 225 of Title 13 require your response. The U.S. Census Bureau is required by Section 9 of Title 13 to keep your information confidential and use your responses only to produce statistics. The Census Bureau is not permitted to publicly release your responses in a way that could identify your business, organization, or institution. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the systems that transmit data.

COMPLETE THIS SURVEY ONLINE

Go to: https://portal.census.gov

This survey is jointly conducted by the U.S. Census Bureau and the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.



SECTION A: COMPANY INFORMATION

The following section collects information on the operations and structure of this business. All businesses that receive this survey should answer questions in the upcoming section. The reporting unit for the survey is the U.S.-located company, including all majority-owned subsidiaries and divisions regardless of location. **Report only for domestic operations.**

only	for domestic operations.
A.1 (Ceased Operations
Has t	this business ceased operations?
	Yes
	No - Skip to 'A.3 Business Ownership - Foreign-Owned Entity'
A.2	Date Ceased Operations
Print	the month and year this business ceased operations.
MN	
	Reporting Instructions: If the ceased-operations date is before January 2021, skip to SECTION I: CONTACT INFORMATION on page 52.
	If the ceased-operations date is after January 1, 2021, you are still required to complete this survey covering any business activity for 2021, even though this business is not currently operating.
A.3 l	Business Ownership – Foreign-Owned Entity
In 20	21, was this business a majority-owned subsidiary of a foreign company?
	Yes
	No
	Reporting Instructions for Foreign-Owned Companies: If this business is owned by a foreign parent, the reporting unit for the survey is the U.Slocated company, including all majority-owned subsidiaries and divisions located in the domestic United States (50 states and the District of Columbia). For reporting purposes, the foreign parent and any foreign affiliates this company does not own should be treated the same as any business partner, customer, or supplier this business does not own.
A.4 l	Business Ownership – U.S. Entity
Exan	21, did another U.S. company or other entity own more than 50 percent of this business? nples of other entities include estates, trusts, employee stock ownership plans (ESOPs), associations, abership clubs, and cooperatives.
	Yes – Skip to 'A.6 Business – 10% or More Ownership'
	No
	Business Ownership – Government or Tribal Entity 21, was this business owned by a government or tribal entity?
	Yes
	No
A.6 l	Business – 10% or More Ownership
	21, did at least one person own 10% or more of this business? Do not count parent companies, tes, trusts or other entities.
	Yes
	No – Select "No" ONLY if no person owned 10% or more of this business.

A.7 N	umber of Owners						
In 202	1, how many people owned this business?						
• Cou	not combine two or more owners to create one owner. nt spouses and partners as separate owners. nt owners who owned at least 10% of this business.						
	1 person						
	2 people						
	3 people						
	4 people						
!	5 - 10 people						
	11 or more people						
	Business is owned by a parent company, estate, trust or other entit	у					
	Do not know						
A.8 N	umber of W-2 Paid Domestic Employees or Employees/Owne	rs					
throug	e pay period including March 12, 2021, how many people worked for the grants? <i>Include both full-time and part-time employees as well a</i> If States.						
Coun	t each person only once. If none, report zero.		N	lumber of Pe	eople		
•	a. Number of owners who received a W-2 issued by this business salary or wages				000		
I	b. Number of employees who received a W-2 issued by this busine salary or wages				000		
(c. Total						
A.9 N	umber of Domestic Workers Who Did Not Receive a W-2						
Not in for this	cluding employees or employees/owners included in the previous of susiness in 2021, including those paid through grants? <i>Include bos yourself, if applicable. Include only persons in the United States.</i>			, ,	•		
Coun	t each person only once. If none, report zero.						
a. Individuals whose work was directed by this business who received payment in other ways (e.g., contractors, consultants, temporary workers who received a 1099 from this business or payment from another business)							
b. Unpaid individuals who worked for this business (e.g., friends, volunteers, family members)							
A.10 Total Worldwide and Domestic Sales and Operating Revenues							
In 2021, what was the amount of this business's worldwide and domestic sales and operating revenues, including grants?							
Round	d to the nearest one thousand dollars. If none, report zero.						
		\$Bil.	Mil.	Thou.	Dol.		
2021 s	ales, revenues, and grants				0 0 0		
Reporting Instructions: Report amount using U.S. Generally Accepted Accounting Principles (U.S. GAAP) as recognized by the Financial Accounting Standard Board (FASB). If this business follows International Financial Reporting Standards (IFRS), we request that you estimate any adjustments that would be required to conform to U.S. GAAP.							

A.11	Domestic Sales and Revenues					
	much of the 'A.10 Total Worldwide and Domestic Sales and Opnues, and grants was attributable to or originated from domestic ope					
rever	nues to foreign customers, including foreign subsidiaries.	<u> </u>	. morado da	roo arra op	oraling .	
Round to the nearest one thousand dollars. If none, report zero.		\$Bil.	Mil.	Thou.	Dol.	
Dome	estic operating revenues				000	
	Reporting Instructions: For example, a U.S. manufacturing corpo the world; however, because all of its operations are located inside sales in this question.					
A.12	Sources of Domestic Sales and Revenues					
Approximately what share of this business's 'A.11 Domestic Sales and Revenues' in 2021 domestic sales and revenues, including grants, came from the following? If none, report zero.						
	a. Selling goods to customers, including other businesses				0 %	
					0 %	
	b. Selling services to customers, including other businesses				.0 %	
	c. Licensing or royalties			. 00(0 %	
	ğ ,					
	d. Grants			. [0 %	
	e. Other (specify) →			. 001	0 %	
A.13	Types of Customers			Total	= 100%	
In 20	21, which of the following types of customers accounted for 10% or s and/or services? Select all that apply.	more of	f this busine	ess's total s	ales of	
	U.S. federal government					
	State and local government, including school districts, transportation	n autho	orities, etc.			
	Other businesses, including distributors of your product(s)					
	Other organizations (foreign governments, nonprofits, etc.)					
	Individuals					
	Business did not have any sales					
	Types of Workers					
In 20	21, which of the following types of workers were used by this busine	ess? <i>Se</i>	lect all tha	t apply.		
	Full-time paid employees (workers who received a W-2 from this but	ısiness)				
	Part-time paid employees (workers who received a W-2 from this but	usiness)				
	Paid day laborers					
	Temporary staffing obtained from a temporary help service					
	Leased employees from a leasing service or a professional employee	er organ	ization			
	Contractors, subcontractors, independent contractors, or outside co 1099 or payment from another company)	nsultant	ts (workers	who receiv	ed a	
	None of the above					

A.15 Franchise Operation In 2021, did all or part of this business operate as a franchise?	
Yes	
□ No	
A.16 Working From Home In 2021, did this business allow any employees to work from home?	
□ Yes	
□ No – Skip to 'A.18 Factors Affecting Working From Home'	
A.17 Percent of Employees Working From Home	
In 2021, what percent of all employees at this business worked from home at the following free If none, report zero. Estimates are acceptable.	equencies?
a. Never	0 %
b. Less than one day per week	0 %
c. One day per week	0%
d. Two to four days per week	0 %
e. Five or more days per week	0 %
	Total = 100%
e. Five or more days per week	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work select all that apply. Dob or parts of job cannot be performed from home	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work select all that apply.	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work select all that apply. Dob or parts of job cannot be performed from home Management of employees working from home too costly or complicated	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work **Select all that apply. Dob or parts of job cannot be performed from home Management of employees working from home too costly or complicated Security (IT or other) concerns	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) → □ No limiting factors	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work ** Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) →	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) → □ No limiting factors A.19 Primary Business Activity	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) → □ No limiting factors A.19 Primary Business Activity	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) → □ No limiting factors A.19 Primary Business Activity	Total = 100%
A.18 Factors Affecting Working From Home In 2021, did any of the following factors limit the ability of this business's employees to work Select all that apply. □ Job or parts of job cannot be performed from home □ Management of employees working from home too costly or complicated □ Security (IT or other) concerns □ Other (specify) → □ No limiting factors A.19 Primary Business Activity	Total = 100%

SECTION B: OWNER CHARACTERISTICS

The following section collects information on the owners of this business. Based on the number of owners you reported, you may be asked to complete this section for up to four owners of this business. If the business had no owners, then proceed to the instructions on the bottom of page 19.

Unless otherwise indicated, the reporting period for this section is calendar year 2021.

B.1 Percent Ownership

For the person(s) owning the largest percentage(s) in this business in 2021, list each person's name and percentage owned.

- Do not report percentages owned by parent companies, estates, trusts, or other entities.
- If more than 4 people owned this business equally, select any 4 people.
- Round percentages to whole numbers. For example, report 1/3 ownership as 33%.

	Name of Owner			ed able.)
Name 1:		Owner 1:		0 %
Name 2:		Owner 2:		0 %
Name 3:		Owner 3:	000	0 %
Name 4:		Owner 4:		0 %

If percent entered for Owner 1 is more than 0%, then answer questions for Owner 1 on pages 7, 8, and 9. If percent entered for Owner 2 is more than 0%, then answer questions for Owner 2 on pages 10, 11 and 12. If percent entered for Owner 3 is more than 0%, then answer questions for Owner 3 on pages 13, 14 and 15. If percent entered for Owner 4 is more than 0%, then answer questions for Owner 4 on pages 16, 17 and 18.

OWNER 1	B.1.3 Race		
If the business had no owners, then proceed to the	What is Owner 1's race? Select all that apply. (For this survey, Hispanic origins are not races.)		
instructions on the bottom of page 19.	White – Print, for example, German, Irish,		
B.1.1 Sex What is the sex of <i>Owner 1</i> ?	English, Italian, Lebanese, Egyptian, etc. 🔀		
☐ Male ☐ Female			
Note: Please answer BOTH B.1.2 Ethnicity and B.1.3 Race questions.	Black or African Am. – Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc. 🙀		
B.1.2 Ethnicity			
Is Owner 1 of Hispanic, Latino, or Spanish origin?	American Indian or Alaska Native – Print name		
No, not of Hispanic, Latino, or Spanish origin	of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec, Native Village of Barrow Inupiat Traditional		
Yes, Mexican, Mexican American, Chicano	Government, Nome Eskimo Community, etc.		
Yes, Puerto Rican			
Yes, Cuban Yes, another Hispanic, Latino, or Spanish origin –	☐ Chinese ☐ Vietnamese ☐ Native Hawaiian		
Print, for example, Salvadoran, Dominican, Colombian, Guatemalan, Spaniard,	☐ Filipino ☐ Korean ☐ Samoan		
Ecuadorian, etc. 📈	☐ Asian Indian ☐ Japanese ☐ Chamorro		
	Other Asian – Print, for example, Pakistani,		
	└── Cambodian, Hmong, etc. _▼		
	Other Pacific Islander – Print, for example, Tongan, Fijian, Marshallese, etc. ▼		
	P 4 4 Military Compies		
	B.1.4 Military Service Has Owner 1 ever served in any branch of the U.S. Armed Forces, including the Coast Guard, the		
	National Guard, or a Reserve component of any service branch?		
	☐ Yes ☐ No – Skip to 'B.1.7 Initial Acquisition Year' on page 8		
	B.1.5 Military Service Disability		
	Is Owner 1 disabled as the result of illness or injury incurred or aggravated during military service?		
	□ Yes □ No		

B.1.6 Other Military Service	B.1.10 Education Prior to Owning the Business
Do any of the following characteristics describe Owner 1's military service? Select all that apply.	Prior to establishing, purchasing, or acquiring this business, what was the highest degree or level of school <i>Owner 1</i> completed?
Served on active duty military service, not including training for the Reserves or National Guard	Less than high school / secondary school graduate – Skip to 'B.1.12 Age' on page 9
Served on active duty military service after September 11, 2001	High school / secondary school graduate – Diploma or GED – Skip to 'B.1.12 Age' on page 9
Served on active duty military service in 2021 Served in the National Guard or as a reservist of any branch of the U.S. Armed Forces in 2021	Technical, trade, or vocational school – Skip to 'B.1.12 Age' on page 9 Some college, but no degree – Skip to
None of the above	'B.1.12 Age' on page 9 Associate Degree (for example, AA, AS) – Skip to 'B.1.12 Age' on page 9
B.1.7 Initial Acquisition Year In what year did Owner 1 initially acquire ownership of this business? Year Don't know	Bachelor's Degree (for example, BA, BS) Master's Degree (for example, MA, MEng, MEd, MSW, MBA) Doctorate Degree (for example, PhD, EdD) Professional Degree, beyond a Bachelor's Degree (for example, MD, DDS, DVM, LLB, JD)
B.1.8 Primary Income Source In 2021, did this business provide <i>Owner 1's</i> primary source of personal income?	(lot example, MD, DDS, DVM, EEB, 3D)
☐ Yes ☐ No	
B.1.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 1</i> started most recently?	
This is the owner's first businessBusiness is still operating, and <i>Owner 1</i> still owns it	
Business is no longer in operation	
Business was purchased by another company	
Business was purchased by another individual	
Other (specify) $ otin otag $	

B.1.11 Field of Highest Degree Prior to Owning the Business		B.1.13 Place of Birth Was Owner 1 born in the United States?
busi	to establishing, purchasing, or acquiring this ness, what was the field of the highest degree pleted for <i>Owner 1?</i> Select all that apply.	Yes No
	Biological, agricultural and environmental life sciences	B.1.14 U.S. Citizenship Is Owner 1 a citizen of the United States?
	Chemistry, except biochemistry	is Owner 1'a citizen of the Officed States?
	Computer and mathematical sciences and other technology and technical fields	☐ Yes ☐ No
	Earth, atmospheric and ocean sciences	B.1.15 Owner Disability
	Economics, political science, psychology, sociology, and other social sciences	Does Owner 1 have a physical or mental impairment that substantially limits one or more of his/her major life activities? For this survey, major life activities
	Engineering	can include both those in everyday and professional life.
	Health	☐ Yes ☐ No ☐ Don't know
	Physics and astronomy	B.1.16 Reasons for Owning the Business
	Science and mathematics teacher education	How important to <i>Owner 1</i> is each of the following
	Other science and engineering related fields, not listed above $\not{\!$	reasons for owning this business? Select one for each row. Very Somewhat Not Important Important Important
		important important important
	Ant and home with a field	Wanted to be my own boss
	Art and humanities fields Education, except science and math teacher	Flexible hours
Ш	education	Balance work and family
	Management and administration fields	Opportunity for greater income
	Sales and marketing fields	Best avenue for my ideas /
Ш	Social service and related fields	Unable to find employment
	Other non-science and non-engineering related fields, not listed above \nearrow	Working for someone else
		Always wanted to start my own business
Wha	12 Age t was the age of Owner 1 as of December 31,	An entrepreneurial friend
2021	! Under 25 □ 45 - 54	Wanted to carry on the family business
	25 - 34 55 - 64	Wanted to help and/or become more involved in my community
	35 - 44 G5 or over	Other (specify)

OWNER 2	B.2.3 Race			
If applicable, if not Skip to 'B.5 One Family Majority	What is Owner 2's race? Select all that apply.			
Ownership' on page 19.	(For this survey, Hispanic origins are not races.) White – Print, for example, German, Irish,			
B.2.1 Sex What is the sex of Owner 2?	English, Italian, Lebanese, Egyptian, etc. 🗾			
Male Female				
	Black or African Am. – Print, for example,			
Note: Please answer BOTH B.2.2 Ethnicity and B.2.3 Race questions.	☐ African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc. ⊋			
B.2.2 Ethnicity				
Is Owner 2 of Hispanic, Latino, or Spanish origin?	American Indian or Alaska Native – <i>Print name</i>			
No, not of Hispanic, Latino, or Spanish origin	of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec,			
Yes, Mexican, Mexican American, Chicano	Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, etc. ⊋			
Yes, Puerto Rican				
Yes, Cuban	Native			
Yes, another Hispanic, Latino, or Spanish origin – <i>Print, for example, Salvadoran, Dominican,</i>	Chinese Vietnamese Hawaiian			
Colombian, Guatemalan, Spaniard, Ecuadorian, etc. _✔	☐ Filipino ☐ Korean ☐ Samoan			
	☐ Asian Indian ☐ Japanese ☐ Chamorro			
	Other Asian – Print, for example, Pakistani, Cambodian, Hmong, etc.			
	Other Pacific Islander – <i>Print, for example,</i>			
	☐ Tongan, Fijian, Marshallese, etc. ⊋			
	B.2.4 Military Service			
	Has <i>Owner 2</i> ever served in any branch of the U.S. Armed Forces, including the Coast Guard, the			
	National Guard, or a Reserve component of any service branch?			
	Yes No – Skip to 'B.2.7 Initial Acquisition Year' on page 11			
	•			
	B.2.5 Military Service Disability Is Owner 2 disabled as the result of illness or injury			
	incurred or aggravated during military service?			
	☐ Yes ☐ No			

B.2.6 Other Military Service	B.2.10 Education Prior to Owning the Business		
Do any of the following characteristics describe Owner 2's military service? Select all that apply.	Prior to establishing, purchasing, or acquiring this business, what was the highest degree or level of school <i>Owner 2</i> completed?		
Served on active duty military service, not including training for the Reserves or National Guard	Less than high school / secondary school graduate – Skip to 'B.2.12 Age' on page 12		
Served on active duty military service after September 11, 2001	High school / secondary school graduate – Diploma or GED – Skip to 'B.2.12 Age' on page 12		
Served on active duty military service in 2021	Technical, trade, or vocational school –		
Served in the National Guard or as a reservist of any branch of the U.S. Armed Forces in 2021	Skip to 'B.2.12 Age' on page 12		
☐ None of the above	Some college, but no degree – Skip to 'B.2.12 Age' on page 12		
B.2.7 Initial Acquisition Year	Associate Degree (for example, AA, AS) – Skip to 'B.2.12 Age' on page 12		
In what year did <i>Owner 2</i> initially acquire ownership of this business?	Bachelor's Degree (for example, BA, BS)		
Year	Master's Degree (for example, MA, MEng, MEd, MSW, MBA)		
□ Don't know	☐ Doctorate Degree (for example, PhD, EdD)		
	Professional Degree, beyond a Bachelor's Degree (for example, MD, DDS, DVM, LLB, JD)		
B.2.8 Primary Income Source			
In 2021, did this business provide <i>Owner 2's</i> primary source of personal income?			
□ Yes □ No			
B.2.9 Prior Business Ownership			
Not including this business, what is the status of the previous business <i>Owner 2</i> started most recently?			
☐ This is the owner's first business			
Business is still operating, and <i>Owner 2</i> still owns it			
Business is no longer in operation			
☐ Business was purchased by another company			
Business was purchased by another individual			
Other (specify)			

	11 Field of Highest Business	Degree Prior to Own	ing		13 Place of I		:+ C+	***3	
busi	ness, what was the fi	chasing, or acquiring thi eld of the highest degre Select all that apply.		vvas	Yes	□ No	nea Sta	ies?	
	Biological, agricultu sciences	ıral and environmental l	ife		14 U.S. Citiz	-	aitad Ct	ata a ?	
	Chemistry, except b	piochemistry		is O	wner z a citize	en of the of	iitea St	ates?	
	Computer and math technology and tech	nematical sciences and o	other		Yes	□ No			
	Earth, atmospheric			B.2.	15 Owner Di	isability			
		I science, psychology,		that	s <i>Owner 2</i> have substantially activities? For	limits one of	or more	of his/her	major
	Engineering				include both t				
	Health				V	□ Ni-			(1. l
					Yes	□ No		□ Don	't know
	Physics and astrono				16 Reasons		_		
Ш		matics teacher education			important to ons for owning			f the follov	ving
	not listed above \mathbf{z}	engineering related field	S,	Sele	ect one for ea		Very	Somewhat	Not
						'	mportant	Important	Important
	And and house solding	C-14-		Wan	ted to be my	own boss			
	Art and humanities	cience and math teache	r	Flexi	ible hours				
Ш	education	oronice and main todone		Bala	nce work and	family			
	Management and a	dministration fields		Oppo	ortunity for gi	reater			
	Sales and marketing	g fields		Best	avenue for m	ny ideas /			
	Social service and r	related fields		Ŭ	ds / services				
		and non-engineering rela	ated		ble to find em king for some		H		
	fields, not listed abo	ove 📝			't appeal to m		Ш	Ш	Ш
					ays wanted to business	start my			
B.2.	12 Age				entrepreneuria				
Wha	t was the age of <i>Owr</i>	ner 2 as of December 31	,		ımily member model	was a			
2021	?				ted to carry o	n the			
Ш	Under 25	45 - 54			ly business ted to help ar	nd/or			
	25 - 34	55 - 64		beco	ome more investig	olved	Ш	Ш	
	35 - 44	65 or over			er (specify) 📈				
					or (specify)				

OWNER 3	B.3.3 Race
If applicable, if not Skip to 'B.5 One Family Majority	What is Owner 3's race? Select all that apply. (For this survey, Hispanic origins are not races.)
Ownership' on page 19. B.3.1 Sex	White – Print, for example, German, Irish, English, Italian, Lebanese, Egyptian, etc. ∠
What is the sex of <i>Owner 3</i> ?	English, Italian, Lebanese, Egyphan, etc.
☐ Male ☐ Female	
Note: Please answer BOTH B.3.2 Ethnicity and B.3.3 Race questions.	Black or African Am. – Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc.
B.3.2 Ethnicity	
Is Owner 3 of Hispanic, Latino, or Spanish origin?	American Indian or Alaska Native – Print name
No, not of Hispanic, Latino, or Spanish origin	of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec, Native Village of Barrow Inupiat Traditional
Yes, Mexican, Mexican American, Chicano	Government, Nome Eskimo Community, etc.
Yes, Puerto Rican	
Yes, Cuban Yes, another Hispanic, Latino, or Spanish origin –	☐ Chinese ☐ Vietnamese ☐ Native
Print, for example, Salvadoran, Dominican, Colombian, Guatemalan, Spaniard,	☐ Filipino ☐ Korean ☐ Samoan
Ecuadorian, etc.	☐ Asian Indian ☐ Japanese ☐ Chamorro
	Other Asian – <i>Print, for example, Pakistani,</i>
	☐ Cambodian, Hmong, etc. ⊋
	Other Pacific Islander – Print, for example, Tongan, Fijian, Marshallese, etc. 🙀
	B.3.4 Military Service Has Owner 3 ever served in any branch of the
	U.S. Armed Forces, including the Coast Guard, the National Guard, or a Reserve component of any service branch?
	Yes No – Skip to 'B.3.7 Initial Acquisition Year' on page 14
	B.3.5 Military Service Disability
	Is Owner 3 disabled as the result of illness or injury incurred or aggravated during military service?
	☐ Yes ☐ No

B.3.6 Other Military Service	B.3.10 Education Prior to Owning the Business
Do any of the following characteristics describe Owner 3's military service? Select all that apply.	Prior to establishing, purchasing, or acquiring this business, what was the highest degree or level of school <i>Owner 3</i> completed?
Served on active duty military service, not including training for the Reserves or National Guard	Less than high school / secondary school graduate – Skip to 'B.3.12 Age' on page 15
Served on active duty military service after September 11, 2001	High school / secondary school graduate – Diploma or GED – 'B.3.12 Age' on page 15
Served on active duty military service in 2021 Served in the National Guard or as a reservist of any branch of the U.S. Armed Forces in 2021	Technical, trade, or vocational school – Skip to 'B.3.12 Age' on page 15 Some college, but no degree – Skip to
None of the above	'B.3.12 Age' on page 15
B.3.7 Initial Acquisition Year	Associate Degree (for example, AA, AS) – Skip to 'B.3.12 Age' on page 15
In what year did <i>Owner 3</i> initially acquire ownership	Bachelor's Degree (for example, BA, BS)
of this business?	Master's Degree (for example, MA, MEng, MEd, MSW, MBA)
	Doctorate Degree (for example, PhD, EdD)
Don't know	Professional Degree, beyond a Bachelor's Degree (for example, MD, DDS, DVM, LLB, JD)
In 2021, did this business provide <i>Owner 3's</i> primary source of personal income?	
□ Yes □ No	
B.3.9 Prior Business Ownership	
B.3.9 Prior Business Ownership Not including this business, what is the status of the	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently?	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i>	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	
B.3.9 Prior Business Ownership Not including this business, what is the status of the previous business <i>Owner 3</i> started most recently? This is the owner's first business Business is still operating, and <i>Owner 3</i> still owns it Business is no longer in operation Business was purchased by another company Business was purchased by another individual	

B.3.11 Field of Highest Degree Prior to Owning the Business	B.3.13 Place of Birth Was Owner 3 born in the United States?
Prior to establishing, purchasing, or acquiring this business, what was the field of the highest degree completed for <i>Owner 3?</i> Select all that apply.	Yes No
Biological, agricultural and environmental life sciences	B.3.14 U.S. Citizenship Is Owner 3 a citizen of the United States?
☐ Chemistry, except biochemistry	
Computer and mathematical sciences and other technology and technical fields	☐ ☐ Yes ☐ No
Earth, atmospheric and ocean sciences	B.3.15 Owner Disability
Economics, political science, psychology, sociology, and other social sciences	Does Owner 3 have a physical or mental impairment that substantially limits one or more of his/her major life activities? For this survey, major life activities
Engineering	can include both those in everyday and professional life.
Health	☐ Yes ☐ No ☐ Don't know
Physics and astronomy	
Science and mathematics teacher education	B.3.16 Reasons for Owning the Business How important to <i>Owner 3</i> is each of the following
Other science and engineering related fields,	reasons for owning this business?
not listed above _₹	Select one for each row. Very Somewhat Not Important Important Important
	important important important
	Wanted to be my own boss
Art and humanities fields Education, except science and math teacher	Flexible hours
education	Balance work and family
Management and administration fields	Opportunity for greater
Sales and marketing fields	Best avenue for my ideas / goods / services
Social service and related fields	Unable to find employment
Other non-science and non-engineering related fields, not listed above \slash	Working for someone else
	Always wanted to start my own business
B.3.12 Age	An entrepreneurial friend
What was the age of <i>Owner 3</i> as of December 31, 2021?	or family member was a role model
☐ Under 25 ☐ 45 - 54	Wanted to carry on the family business
□ 25 - 34 □ 55 - 64	Wanted to help and/or become more involved in my community
□ 35 - 44 □ 65 or over	Other (specify)

OWNER 4	B.4.3 Race			
If applicable, if not Skip to 'B.5 One Family Majority	What is Owner 4's race? Select all that apply. (For this survey, Hispanic origins are not races.)			
Ownership' on page 19. B.4.1 Sex	White – Print, for example, German, Irish,			
What is the sex of <i>Owner 4</i> ?	English, Italian, Lebanese, Egyptian, etc. д			
☐ Male ☐ Female				
Note: Please answer BOTH B.4.2 Ethnicity and B.4.3 Race questions.	Black or African Am. – Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc.			
B.4.2 Ethnicity				
Is Owner 4 of Hispanic, Latino, or Spanish origin?	American Indian or Alaska Native – Print name			
No, not of Hispanic, Latino, or Spanish origin	of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec,			
Yes, Mexican, Mexican American, Chicano	Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, etc. ⊋			
Yes, Puerto Rican				
Yes, Cuban Yes, another Hispanic, Latino, or Spanish origin –	☐ Chinese ☐ Vietnamese ☐ Native			
Print, for example, Salvadoran, Dominican, Colombian, Guatemalan, Spaniard,	☐ Filipino ☐ Korean ☐ Samoan			
Ecuadorian, etc.	☐ Asian Indian ☐ Japanese ☐ Chamorro			
	Other Asian – Print, for example, Pakistani,			
	Cambodian, Hmong, etc. 📈			
	Other Pacific Islander – Print, for example, Tongan, Fijian, Marshallese, etc. 굳			
	R 4 4 Military Sarvica			
	B.4.4 Military Service Has Owner 4 ever served in any branch of the U.S. Armed Forces, including the Coast Guard, the National Guard, or a Reserve component of any			
	service branch? Yes No – Skip to 'B.4.7 Initial			
	Acquisition Year' on page 17			
	B.4.5 Military Service Disability Is Owner 4 disabled as the result of illness or injury			
	incurred or aggravated during military service?			
	☐ Yes ☐ No			

B.4.6 Other Military Service	B.4.10 Education Prior to Owning the Business
Do any of the following characteristics describe Owner 4's military service? Select all that apply.	Prior to establishing, purchasing, or acquiring this business, what was the highest degree or level of school <i>Owner 4</i> completed?
Served on active duty military service, not including training for the Reserves or National Guard	Less than high school / secondary school graduate – Skip to 'B.4.12 Age' on page 18
Served on active duty military service after September 11, 2001	High school / secondary school graduate – Diploma or GED – Skip to 'B.4.12 Age' on page 18
Served on active duty military service in 2021 Served in the National Guard or as a reservist of any branch of the U.S. Armed Forces in 2021	Technical, trade, or vocational school – Skip to 'B.4.12 Age' on page 18 Some college, but no degree – Skip to
None of the above	'B.4.12 Age' on page 18 Associate Degree (for example, AA, AS) – Skip
B.4.7 Initial Acquisition Year	to 'B.4.12 Age' on page 18
In what year did <i>Owner 4</i> initially acquire ownership of this business?	Bachelor's Degree (for example, BA, BS)
Year	Master's Degree (for example, MA, MEng, MEd, MSW, MBA)
	Doctorate Degree (for example, PhD, EdD)
□ Don't know	Professional Degree, beyond a Bachelor's Degree
B.4.8 Primary Income Source	(for example, MD, DDS, DVM, LLB, JD)
In 2021, did this business provide <i>Owner 4's</i> primary source of personal income?	
☐ Yes ☐ No	
B.4.9 Prior Business Ownership	
Not including this business, what is the status of the previous business <i>Owner 4</i> started most recently?	
This is the owner's first business	
Business is still operating, and <i>Owner 4</i> still owns it	
Business is no longer in operation	
Business was purchased by another company	
Business was purchased by another individual	
☐ Other (specify) ✓	

	11 Field of Highest Degree Prior to Owning Business	B.4.13 Place of Birth Was Owner 4 born in the United States?
busi	to establishing, purchasing, or acquiring this ness, what was the field of the highest degree pleted for <i>Owner 4?</i> Select all that apply.	Yes No
	Biological, agricultural and environmental life sciences	B.4.14 U.S. Citizenship
	Chemistry, except biochemistry	Is Owner 4 a citizen of the United States?
	Computer and mathematical sciences and other technology and technical fields	☐ Yes ☐ No
	Earth, atmospheric and ocean sciences	B.4.15 Owner Disability
	Economics, political science, psychology, sociology and other social sciences	Does Owner 4 have a physical or mental impairment that substantially limits one or more of his/her major life activities? For this survey, major life activities
	Engineering	can include both those in everyday and professional life.
	Health	☐ Yes ☐ No ☐ Don't know
	Physics and astronomy	B.4.16 Reasons for Owning the Business
	Science and mathematics teacher education	How important to <i>Owner 4</i> is each of the following
	Other science and engineering related fields, not listed above $_{\not\!$	reasons for owning this business? Select one for each row. Very Somewhat Not Important Important Important
	Art and humanities fields	Wanted to be my own boss
	Education, except science and math teacher	Flexible hours
Ш	education	Balance work and family
	Management and administration fields	Opportunity for greater
	Sales and marketing fields	Best avenue for my ideas / goods / services
Ш	Social service and related fields	Unable to find employment
	Other non-science and non-engineering related fields, not listed above \nearrow	Working for someone else
		Always wanted to start my own business
Wha	12 Age t was the age of <i>Owner 4</i> as of December 31,	An entrepreneurial friend or family member was a role model
2021	Under 25 □ 45 - 54	Wanted to carry on the family business
	25 - 34 55 - 64	Wanted to help and/or become more involved in my community
	35 - 44 G5 or over	Other (specify)

B.5 One-Family-Majority Ownership In 2021, did two or more members of one family own the majority of this business? (Family refers to spouses / unmarried partners, parents / guardians, children, siblings, or close relatives.)
Yes
□ No
B.6 Joint Ownership In 2021, did spouses / unmarried partners jointly own this business?
□ Yes
□ No - See instructions at the bottom of this page
B.7 Equal Operation
In 2021, was this business operated equally by both spouses / unmarried partners?
Yes, equally operated by spouses / unmarried partners
No, primarily operated by Owner 1
No, primarily operated by Owner 2
If you reported "No" to 'A.4 Business Ownership – U.S. Entity' AND you reported between 1-9 total employment to 'A.8 Number of W-2 Paid Domestic Employees or Employees/Owners,' then skip to
SECTION D: RESEARCH AND DEVELOPMENT FOR MICROBUSINESSES on page 30.
All others skip to SECTION E: GOODS, SERVICES, AND BUSINESS PROCESSES AND TECHNOLOGY on page 37.

funded by your organization. For the purposes of this survey, your organization is defined as all units included in your Internal Revenue Service (IRS) Form 990 or IRS Form 990-PF filings. Only organizations headquartered in the United States. are eligible for this section. The reporting period for this section is your organization's fiscal year ending in 2021. <i>Estimates are acceptable. Report all items to the best of your ability.</i>
C.1 Organization Affiliation Is your organization affiliated with or considered part of another for-profit, nonprofit, or higher education organization? For example, a specific hospital foundation, university research entity, etc.
Yes
If "Yes," specify _₹
□ No
C.2 Total Expenses What was the consolidated total amount of your organization's expenses for 2021 as (would be) reported on your IRS Form 990s, line 18, or IRS Form 990-PFs, line 26 total expenses and disbursements for column (a) revenue and expenses per books? Round to the nearest one thousand dollars. If none, report zero
C.3 Number of Employees For the pay period including March 12, 2021, how many people worked for your organization?
Include: • Full- and part-time employees. Number
Exclude: • Temporary employees and consultants
C.4 Fiscal Year End In what month did your organization's Fiscal Year (FY) 2021 end? MM YYYY 2 0 2 1

The next questions a	ask about researcl	h performed and/or	funded by	your organization.
Please read the info	rmation below be	fore continuing.	_	

By research we mean...

For the purposes of this survey, research includes research and experimental development.

Research and experimental development comprise creative and systematic work to:

- · Increase the stock of knowledge, including knowledge of humankind, culture, and society OR
- Devise new applications of available knowledge, including materials, products, devices, processes, systems, or services

Research activities must be...

- Novel: projects that advance current knowledge or create new knowledge
- Creative: projects focused on original concepts and hypotheses
- Uncertain: project outcomes are unable to be completely determined at the outset
- Systematic: projects are planned and budgeted
- Transferable/Reproducible: project methodology and results are transferable/reproducible to other situations and locations

May meet the criteria for research

- Laboratory or animal studies
- Clinical trials
- Prototype development
- Outcomes research
- Development/measurement of new methods to deliver/measure social service outcomes
- Policy research
- Humanities research
- Research traineeships
- Other experimental studies

Most likely do not meet the criteria for research

- Internal program monitoring or evaluation
- Public service grants or outreach programs
- · Education or training programs
- Quality control testing
- Market research
- Management studies/efficiency surveys
- Literary, artistic, or historical projects, such as films, music, or books and other publications
- Feasibility studies, unless included as part of an overall research project

C.5 Research Performed by Your Organization

Did your organization perform research in FY 2021?

Include:

 Research performed by your organization's employees or contract employees. (Contract employees are individuals contracted to work on projects otherwise fully performed by your organization's staff.)

 Research performed outside your organization by subcontractors or subawardees. (Report in C.6 Research Performed by Others on page 22.)
Yes
No
ou would like to add additional detail or clarification to your response, please comment in the ce provided below.



C.6 Research Performed by Others	
Did your organization fund research performed by others outside your organization	ganization in FY 2021?
 Include: All grants, contracts, subcontracts, and subawards awarded by your operform research 	organization to external recipients to
Exclude:	
 Research performed by your organization's employees Research performed by contract employees (Contract employees are projects otherwise fully performed by your organization's staff.) 	individuals contracted to work on
Yes	
□ No	
If you would like to add additional detail or clarification to your respace provided below.	esponse, please comment in the
If you reported "No" for 'C.5 Research Performed by Your Organizat Performed by Others,' skip to 'C.20 Burden Estimate' on page 29.	ion' AND "No" for 'C.6 Research
If you reported "No" for 'C.5 Research Performed by Your Organizat Performed by Others,' skip to 'C.16 Funding for Research Perform	
All others continue to 'C.7 Funding for Research Performed by This C	Organization.'
C.7 Funding for Research Performed by This Organization	
In FY 2021, how much was spent on research performed within your organic	anization?
Round to the nearest one thousand dollars. If none, report zero.	
Include:Direct costs, such as salaries and wages, travel, equipment, supplies,	consulting, and other expenditures
directly supporting your organization's research projects Indirect costs associated with research expenditures, such as general wages, fringe benefits, facility costs, depreciation, etc. These should I organization's applicable fringe, overhead, and General and Administ 	be calculated using your
Administrative (F&A) rates Exclude:	
 Capital expenditures (i.e., costs for construction or renovation of facil Report Capital expenditures in 'C.17 -C.19' on pages 28-29. Payments/funds in excess of the actual cost of the research work per Payments made by your organization to subcontractors or subawarde 	formed (e.g., fees)
organization	ees performing research outside your
	\$Bil. Mil. Thou. Dol.
Total	000
If you would like to add additional detail or clarification to your respace provided below.	esponse, please comment in the
If 'C.7 Funding for Research Performed by This Organization' are le 'C.20 Burden Estimate' on page 29.	ess than \$50,000, then skip to



C.8 Res	earch Funding Sources				
perform	ch of the 'C.7 Funding for Research Performed by This Organization came from each of the following sources to the nearest one thousand dollars. If none, report zero.		on' in fund	ing for rese	earch
		\$Bil.	Mil.	Thou.	Dol.
a.	Internal funds: Your organization's own funds from your endowment, general donations, or other unrestricted sources			000	0 0 0
b.	Individual donors: Gifts designated by the donors for research		000	000	000
C.	Federal government: Any agency of the United States government. Include funds your organization received as a subcontractor or subawardee for research activities on federal projects				0 0 0
d.	State and local government: Any state, county, municipality, or other local government entity in the United States				000
e.	Businesses: Domestic or foreign for-profit organizations. Report funds from a company's nonprofit foundation in Row f				0 0 0
f.	Foundations: Domestic or foreign nonprofit grant-making organizations		000	000	000
g.	Universities: Domestic or foreign degree-granting institutions				000
h.	All other nonprofits: Domestic or foreign public charities and other nonprofit organizations not reported in Row f or g				000
i.	Other, (specify) F All other sources not reported above				000
	Total				0 0 0

.9 Res	earch Performance by Field				
erform	tch of the 'C.7 Funding for Research Performed by This Organic by this organization was spent in each of the following fields? to the nearest one thousand dollars. If none, report zero.		on' in fundi	ng for rese	arch
a.	Agricultural Sciences and Natural Resources and Conservation: e.g., Agricultural sciences, Animal sciences, Applied horticulture, Fishing and fisheries science, Food science and technology, Forestry, Natural resources and conservation, Plant sciences, or Soil sciences	\$Bil.	Mil.	Thou.	Dol. 0 0 0
b.	Biological, Biomedical, and Health Sciences: e.g., Biochemistry, biophysics, molecular biology; Biotechnology; Botany; Cell biology; Epidemiology; Genetics; Medicine; Neuroscience; Public health; Veterinary medicine; or Zoology				0 0 0
C.	Engineering: e.g., Aerospace, aeronautical, and astronautical engineering; Bioengineering and biomedical engineering; Chemical engineering; Civil engineering; Electrical, electronic, and communications engineering; Industrial and manufacturing engineering; Mechanical engineering; or Metallurgical and materials engineering				000
d.	Geosciences, Atmospheric Sciences, and Ocean Sciences: e.g., Atmospheric sciences and meteorology, Geological and earth sciences, or Ocean and marine sciences				0 0 0
e.	Mathematics, Statistics, and Computer and Information Sciences: e.g., Computer sciences, Information sciences, Information technology, Mathematics, or Statistics				0 0 0
f.	Physical Sciences: e.g., Astronomy and astrophysics, Chemistry, Materials science, or Physics			000	000
g.	Psychology and Social Sciences: e.g., Anthropology; Archaeology; City, urban, community, and regional planning; Criminology; Economics; Geography; Linguistics; Political science and government; Psychology; Public policy analysis; or Sociology, demography, and population studies		000		000
h.	Humanities: e.g., English language and literature, letters; Foreign languages and literature; History; or Philosophy and religious studies				0 0 0
i.	Other Fields: e.g., Business management and business administration, Communication and communications technologies, Education, Law, Library science, Social work, or Visual and performing arts			000	000
	Total				0 0 0



C.10 Research Performance by Type of Research How much of the 'C.7 Funding for Research Perfor performed by this organization was for basic research.

How much of the **'C.7 Funding for Research Performed by This Organization'** in funding for research performed by this organization was for basic research, applied research, and experimental development?

Round to the nearest one thousand dollars. If none, report zero.

(1) Federal (2) Nonfederal (3) Total

 a. Basic research: Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	
			0 0 0				0 0 0				0 0 0	

b. **Applied research:** Original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				0 0 0

c. **Experimental development:** Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			0 0 0				000				000

Total: Total for column (1) should equal the amount entered for 'C.8.a. Research Funding Sources – Federal Government.' Total for column (3) should equal the amount entered for 'C.7 Funding for Research Performed by This Organization.'

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				000

If you would like to add additional detail or clarification to your response, please comment in the space provided below.

	Examples	
Basic research	Applied research	Experimental development
A researcher is studying the properties of human blood to determine what affects coagulation.	A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.	A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.
A researcher is studying the properties of molecules under various heat and cold conditions.	A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer lasting components for highway pavement.	A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold conditions.
A researcher is investigating the effect of different types of manipulatives on the way first graders learn mathematical strategy by changing manipulatives and then measuring what students have learned through standardized instruments.	A researcher is studying the implementation of a specific math curriculum to determine what teachers need to know to implement the curriculum successfully.	A researcher is developing and testing software and support tools, based on fieldwork, to improve mathematics cognition for student special education.

1 Re v mu	uch of the 'C.7 Funding for Research Performed by This Org	anizatio	ii speni o	ii icacai cii	
	our organization was for each of the following types of costs?				
		\$Bil.	Mil.	Thou.	Dol.
а	Salaries, wages, and fringe benefits				0 0 0
	 Include costs for all compensation and benefits of employees that are included in the total reported on C.7. 				
	 Include payroll taxes, such as Social Security and medicare. 				
b.	Depreciation and amortization on property, plant, equipment, and intangible assets				000
	 Include depreciation on tangible research assets, such as buildings or equipment, as well as the amortization of intangible assets such as patents. 				
c.	All other costs				0 0 0
	 Include administrative and overhead costs clearly associated with your organization's research. 				
	Total				0 0 0
lude Onl	y your organization's paid employees.				
lude Onl	y your organization's paid employees.			: Organiza	
lude Onla lude Con	y your organization's paid employees.	ees for l	Nonprofit	: Organiza Nu	tions.')
lude Onle Con a.	y your organization's paid employees. e: atract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma	rees for lanagers); owledge	Nonprofit	: Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: atract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new known to the supervision of the superv	enagers): owledge of	Nonprofit	: Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision or researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')
lude Onlo Con a. b.	y your organization's paid employees. e: htract employees. (Report in 'C.14 Research Contract Employ Researchers (including scientists, engineers, and their ma Professionals engaged in the conception or creation of new know Research technicians: Staff who work under the supervision researchers to conduct research activities	anagers): owledge of	Nonprofit	Organiza Nu	tions.')

		search Full-time Equivalents for Nonprofit Organizations
How	ma	ny full-time equivalents (FTEs) worked on <u>research activities</u> in FY 2021?
specification scheduler sc	ic i lule pe	arch personnel are calculated as the total working (paid) hours spent working on research during a reference period (usually a calendar year) divided by the number of hours representing a full-time within the same period. Include only your organization's paid employees. For example, if you have ople working 20, 30, and 40 hours in a week on research activities and a full-time schedule is 40 week at your organization, your research FTE calculation is (20 + 30 + 40)/40 = 2.25 FTE.
		Number of FTEs
	a.	Researchers (including scientists, engineers, and their managers): Professionals engaged in the conception or creation of new knowledge
	b.	Research technicians: Staff who work under the supervision of researchers to conduct research activities
	C.	Other support personnel (clerical and other): Staff who provide direct support services for the research project
		Total
C.14	Re	search Contract Employees for Nonprofit Organizations
	a.	Did any contract employees work on your research activities in FY 2021?
		Contract employees are individuals contracted to work on projects otherwise fully performed by your organization staff.
		Yes
		No
	b.	If "Yes," how many contract employees worked on your <u>research activities</u> during FY 2021?
C.15	Re	search Volunteers for Nonprofit Organizations
	a.	Did any volunteers work on your research activities in FY 2021?
		Volunteers are unpaid workers contributing appreciable and essential activity to research performed by your organization. Their research skills should be comparable to those of your employees. Individuals funded by other sources to conduct research at your organization should not be considered volunteers.
		Yes
		No
	b.	If "Yes," how many volunteers worked on your <u>research activities</u> during FY 2021?
If you	re	ported "No" for 'C.6 Research Performed by Others,' skip to 'C.20 Burden Estimate' on page 29.

C.16 Funding for Research Performed by Other Organizations				
In FY 2021, how much funding did your organization provide to others to	o perform	n research	activities?	
 Include: All grants, contracts, subcontracts, and subawards awarded by your perform research. For multi-year awards, include only the amount paid to the external 	_			ients to
Exclude:Research performed by contract employees.				
Research grants or contracts: Include grants and contracts awarded by your organization to external recipients to perform independent research	\$Bil.	Mil.	Thou.	Dol. 0 0 0
 b. Subcontracts and subawards: Include subcontracts and subawards awarded by your organization to external recipients to support your research activities. 				0 0 0
Total				000
If you would like to add additional detail or clarification to your r space provided below.	esponse	e, please c	omment i	n the
C.17 Total Capital Expenditures for Your Organization				
What was the amount of your organization's capital expenditures in FY 2	2021?			
What was the amount of your organization's capital expenditures in FY 2	2021? \$Bil.	Mil.	Thou.	Dol.
What was the amount of your organization's capital expenditures in FY 2 Total		Mil.	Thou.	Dol. 0 0 0
		Mil.	Thou.	
Total	\$Bil.			000
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz	\$Bil.	n capital ex	xpenditures	000
Total	\$Bil. zation' in oth resea	n capital ex	xpenditures	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea	n capital ex	xpenditures	0 0 0 0 s
Total	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s
Total C.18 Total Capital Expenditures for Research Operations How much of the 'C.17 Total Capital Expenditures for Your Organiz was for research operations? Organizations should allocate capital expenditures that benefit be on a reasonable basis. None of the costs reported here should be included in 'C.7 Func This Organization.'	\$Bil. zation' in oth resea ding for	n capital exarch and other	xpenditures her operation	0 0 0 0 s

How much of the 'C.18 Total Capital Expenditures for Research Ope for research operations was for the following?	et erations	' in capital	expenditu	res	
	\$Bil.	Mil.	Thou.	D	ol.
a. Land acquisition				0	0 0
b. Buildings and land improvement				0	0 0
c. Equipment				0	0 0
d. Capitalized software				0	0 0
e. All other capital expenditures for research operations				0	0 0
Total				0	0 0
The time spent by all employees in collecting and providing this information. Hours Minutes	rmation				

SECTION D: RESEARCH AND DEVELOPMENT FOR MICROBUSINESSES

The following section collects information on research and development activity from businesses with W-2 employment between 1 and 9.

What is Research and Development (R&D)?

Research and development (R&D) comprise creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge.

The term R&D does NOT include expenditures for:

- Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project
- Market research
- Efficiency surveys or management studies
- Literary, artistic, or historical projects, such as films, music, or books and other publications
- Prospecting or exploration for natural resources

R&D activity in software INCLUDES:

- Software development or improvement activities that expand scientific or technological knowledge
- Construction of new theories and algorithms in the field of computer science

R&D activity in software EXCLUDES:

- · Software development that does not depend on a scientific or technological advance, such as
 - supporting or adapting existing systems
 - adding functionality to existing application programs, and
 - routine debugging of existing systems and software
- Creation of new software based on known methods and applications
- Conversion or translation of existing software and software languages
- Adaptation of a product to a specific client, unless knowledge that significantly improved the base program
 was added in that process

Reporting unit

The reporting unit is this business, including all subsidiaries and divisions. Include subsidiary companies where there is more than 50 percent ownership.

Reporting period

Report data for the calendar year 2021, if possible, or for this business's fiscal year ending between April 2021 and March 2021.

Estimates are acceptable.

Report all items to the best of your ability.



D 4 B0	D. A. calintation							
	D Activities 2021, did this business do any of the following R&D activities? Include act	tivities that:						
• This	s business performed ers paid this business to do s business paid others to do	iiviiioo iiidi.						
	one for each row.		V	NI.				
a.	Conducted activities aimed at acquiring new knowledge or understandir without specific immediate commercial applications or uses		Yes	No				
b.	Conducted activities aimed at acquiring new knowledge for solving a sp problem or meeting a specific commercial objective	ecific						
c.	Conducted systematic work, drawing on research and practical experien and resulting in additional knowledge, which is directed to producing ne products or processes or to improving existing products or processes.	ice ew						
d.	Developed and tested goods, services, or processes that were derived frescientific research or technical findings	rom						
e.	Developed software that advanced scientific or technological knowledge							
	Produced findings that could be published in academic journals or present	ented						
	at scientific conferences		Ш					
g.	Applied scientific or technical knowledge in a way that has never been of	done before						
h.	Created new scientific or technical solutions that can be generalized to d	other situations						
i.	Conducted work to discover previously unknown technological facts, str or relationships							
j.	Conducted work to extend the understanding of scientific facts, relations or principles in ways that could be useful to others							
If "No"	is selected for a j., skip to 'D.17 Federal Tax Credit for Research	Activities' on pa	ge 35					
	D Costs	·						
R&D A		s reported as "Y	es" in	the 'D.1				
Include Sala Plan futu Mat Ren Cor Dep alte Exclude Cos par Man Effic Pro Cap	 What was the total cost (both direct and indirect) in 2021 for all the R&D activities reported as "Yes" in the 'D.1 R&D Activities' question? Your best estimate is acceptable. Report dollar amount in thousands. If none, report zero. Include: Salaries, wages, and fringe benefits Plant, machinery, and equipment, except that which was capitalized because it had an alternative future use Materials, supplies, software Rent and utilities Consultants and contractors Depreciation expense from plant, machinery, and equipment that was capitalized because it had an alternative future use Exclude: Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project Market research Efficiency surveys or management studies Literary, artistic, or historical projects, such as films, music, or books and other publications Prospecting or exploration for natural resources Capital expenditures (i.e., costs for construction or renovation of facilities). Report capital expenditures in 'D.10 Total Capital Expenditures for Your Organization,' 'D.11 Total Capital Expenditures for Research Operations by Type of Cost' on page 34. Payments/funds in excess of the actual cost of the research work performed (e.g., profits or fees) 							
Total co	sts for 'R&D Activities' reported in the 'D.1 R&D Activities'	\$Mil. The	ou.	Dol.				
	n for 2021			0 0 0				
If 'D.2 F	R&D Costs' are less than \$50,000, skip to 'D.17 Federal Tax Credit fo	r Research Act	vities	3'				

on page 35.

D.3 Foreign R&D Costs								
During 2021, what amount, if any, of the 'D.2 R&D Costs'	\$Mil.	Thou.	Dol.					
was performed outside the United States by this business or others? Round to the nearest thousand dollars			0 0 0					
D.4 Domestic R&D Costs		,						
Calculate this business's domestic R&D costs by subtracting the amount entered								
for R&D costs outside the United States (question 'D.3 Foreign R&D Costs') from all R&D costs (question 'D.2 R&D Costs'). This value will be used in								
other questions in this survey. Round to the nearest thousand dollars.	\$Mil.	Thou.	Dol.					
This business's domestic R&D cost in 2021			000					
If 'D.4 Domestic R&D Costs' equals \$0, skip to 'D.17 Federal Tax Credit fo on page 35.	r Researcl	n Activities	s'					
D.5 Types of R&D Costs								
During 2021, how much of the 'D.4 Domestic R&D Costs' in domestic R&D co following types of costs? <i>Round to the nearest thousand dollars.</i>	sts was for	each of the	•					
	\$Mil.	Thou.	Dol.					
a. Salaries, wages, and fringe benefits			0 0 0					
			0 0 0					
b. Expensed machinery and equipment (not capitalized)								
c. Materials and supplies			0 0 0					
			000					
d. Payments to others for R&D, including purchased R&D services								
e. Depreciation on R&D property and equipment			0 0 0					
f All other costs /o.g. consultants contractors troval rent\			0 0 0					
f. All other costs (e.g., consultants, contractors, travel, rent)								
Total = 'D.4 Domestic R&D Costs'			0 0 0					
D.6 Domestic R&D Performance Costs								
Calculate this business's domestic R&D performance costs by subtracting the pay	ments for	R&D service	es					
(item d. in question 'D.5 Types of R&D Costs') from domestic R&D costs (que Costs'). Use this value in the next question. Round to the nearest thousand of		Domestic	R&D					
	\$Mil.	Thou.	Dol.					
This business's domestic R&D performance costs in 2021			0 0 0					
This business a domestic flow performance costs in 2021								
If 'D.6 Domestic R&D Performance Costs' equals \$0, skip to 'D.17 Federal Activities' on page 35.	Tax Credi	t for Resea	arch					

D.7 Funding Sources for R&D Activities During 2021, of the 'D.6 Domestic R&D Performance Costs' in total domestic R&D performance cost, how much was paid for by the following sources? Round to the nearest thousand dollars.								
now mu	ch was paid for by the following sources? Hound to the hearest thous	\$Mil.	S. Thou.	Dol.				
a.	This U.S. business			0 0 0				
b.	Your foreign owner (if this business is foreign-owned)			000				
c.	Venture capital and angel financing			000				
d.	Other businesses located within the United States	000	000	0 0 0				
e.	Other businesses located outside the United States			0 0 0				
f.	f. Universities or colleges located within the United States			0 0 0				
g.	Nonprofit organizations located within the United States			0 0 0				
h.	U.S. federal government (including R&D grants)			0 0 0				
	Which agency provided the largest share? Select one from the list be	elow.						
	Department of Defense							
	National Science Foundation							
	Department of Health and Human Services, including the National	Institutes of	of Health					
	Department of Energy							
	NASA							
	Other agencies							
i.	U.S., state, or local government (not including state universities)			0 0 0				
j.	All other organizations outside the United States			0 0 0				
	Total = 'D.6 Domestic R&D Performance Costs'			0 0 0				
D.8 R&D Categories								
	021, of the 'D.6 Domestic R&D Performance Costs' in domestic R&D the following types of R&D? Round to the nearest thousand dollars.) performan	ice cost, ho	w much				
a.	Basic research – activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses	\$Mil.	Thou.	Dol. 0 0				
b.	Applied research – activities aimed at solving a specific problem or meeting a specific commercial objective			0 0 0				
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			000				
	Total = 'D.6 Domestic R&D Performance Costs'			0 0 0				

All others continue to 'D.9 R&D Catego D.9 R&D Categories Funded by the U	•	. ′	it' equals \$	0
During 2021, of the 'D.7.h. Domestic R in domestic R&D performance cost fund types of R&D? Round to the nearest th	ed by the U.S. federal governmer			
 a. Basic research – activities aim or understanding without specif applications or uses 		\$Mil.	Thou.	Dol. 0 0 0
 b. Applied research – activities a problem or meeting a specific c 	imed at solving a specific ommercial objective	. 000		0 0 0
 Development – systematic wording and practical experience and result in the systematic wording in the systematic wording exist. 	sulting in additional	. 000	000	000
Total = 'D.7.h. Domestic R&D funded by the U.S. Federal G	Performance Costs overnment'	. 000		0 0 0
D.10 Total Capital Expenditures for t	his Business			
What was the amount of this business's		\$Mil.	Thou.	Dol.
				0 0 0
on a reasonable basis.	xpenditures for this Business' in all expenditures that benefit both R&D			for
• None of the costs reported here s	should be included in 'D.7 Funding	Sources for F	R&D Activ	ities.'
• None of the costs reported here s	should be included in 'D.7 Funding	Sources for F	R&D Activ	Dol.
	should be included in 'D.7 Funding	\$Mil.	1	
Total	r R&D Operations′ equals \$0, skip	\$Mil.	Thou.	Dol. 0 0 0
Total	r R&D Operations′ equals \$0, skip	\$Mil.	Thou.	Dol. 0 0 0
Total	r R&D Operations' equals \$0, skip perations by Type of Cost xpenditures for R&D Operations'	\$Mil. to 'D.13 Don	Thou.	Dol. 0 0 0
Total	r R&D Operations' equals \$0, skip perations by Type of Cost xpenditures for R&D Operations'	\$Mil. to 'D.13 Don	Thou.	Dol. 0 0 0
Total	r R&D Operations' equals \$0, skip operations by Type of Cost xpenditures for R&D Operations' ns was for the following?	\$Mil. to 'D.13 Don \$Mil.	Thou.	Dol. 0 0 0 Dol.
Total	r R&D Operations' equals \$0, skip perations by Type of Cost xpenditures for R&D Operations' as was for the following?	\$Mil. to 'D.13 Don \$Mil. .	Thou.	Dol. Dol. 0 0 0
Total	r R&D Operations' equals \$0, skip perations by Type of Cost xpenditures for R&D Operations' as was for the following?	\$Mil. to 'D.13 Don \$Mil.	Thou.	Dol. 0 0 0 Dol. 0 0 0
Total	r R&D Operations' equals \$0, skip perations by Type of Cost xpenditures for R&D Operations' as was for the following?	\$Mil. to 'D.13 Don \$Mil. .	Thou.	Dol. 0 0 0 Dol. 0 0 0 0 0 0
Total	r R&D Operations' equals \$0, skip Operations by Type of Cost Expenditures for R&D Operations' This was for the following?	\$Mil. to 'D.13 Don \$Mil.	Thou.	Dol. 0 0 0 Dol. 0 0 0 0 0 0 0 0 0

D.13 Domestic R&D Employees	
For the pay period including March 12, 2021, how many employees from this business's domestic oper were R&D employees and how many were all other employees ? Include owners who received a Walf none, report zero.	
R&D employees include all employees who work on R&D or who provide direct support to R&D, su researchers, R&D managers, technicians, clerical staff, and others assigned to R&D groups. Exclude e who provide only indirect support to R&D, such as corporate personnel, security guards, and cafeteria	mployees
Previously you reported this business's total number of employees in 'A.8 Number of W-2 Paid Employees or Employees/Owners' on page 3. Responses below should not exceed the number of employees reported in A.8.	Employees
a. How many of those employees and employees/owners were R&D employees?	[]
b. Of the R&D employees, how many were female?	
c. Of the R&D employees, how many were male?	🔲
The sum of b. and c. should equal the amount entered in a.	
If you reported "0" for item a. in question 'D.13 Domestic R&D Employees,' skip to 'D.17 Federa for Research Activities.'	al Tax Credit
D.14 Domestic R&D Employees' Occupations	
Of the 'D.13.a. R&D Employees,' how many were? If none, report zero.	Employees
a. Researchers (including R&D scientists, engineers, and their managers)	
b. R&D technicians and equivalent staff	[
c. R&D support staff (clerical and other)	[
d. Total R&D employees (Total from 'D.13.a. Domestic R&D Employees')	
e. Of the researchers reported in line D.14.a. , how many had PhDs?	🔲
D.15 Domestic R&D Employees Full-Time Equivalent	
What was the full-time equivalent of the 'D.14.a. Domestic R&D Employees,' R&D employees? For full-time Domestic R&D employees, use the number of employees for the FTEs. For other full-time employees not working solely on R&D or part-time employees working on R&D, use	Number
the share of full-time workweek they work on R&D. Report partial FTEs in decimals. For example, report 1/2 FTE as .5.	of FTEs
Total FTEs	
D.16 Domestic Researchers Full-Time Equivalent	
What was the full-time equivalent of the 'D.14.a. Domestic R&D Employee Occupations' researchers? Report partial FTEs in decimals. For example, report 1/2 FTE as .5.	Number of FTEs
Total FTEs	00.0
D.17 Federal Tax Credit for Research Activities	
Did this business file for the <u>federal</u> tax credit for increasing research activities (IRS Form 6765) in 202	1?
□ Yes	
□ No	

	Yes			
	No			
o. If	yes, what state(s)? Select all that apply.			
	Alabama		Montana	
	Alaska		Nebraska	
	Arizona		Nevada	
	Arkansas		New Hampshire	
	California		New Jersey	
	Colorado		New Mexico	
	Connecticut		New York	
	Delaware		North Carolina	
	District of Columbia		North Dakota	
	Florida		Ohio	
	Georgia		Oklahoma	
	Hawaii		Oregon	
	ldaho		Pennsylvania	
	Illinois		Rhode Island	
	Indiana		South Carolina	
	lowa		South Dakota	
	Kansas		Tennessee	
	Kentucky		Texas	
	Louisiana		Utah	
	Maine		Vermont	
	Maryland		Virginia	
	Massachusetts		Washington	
	Michigan		West Virginia	
	Minnesota		Wisconsin	
	Mississippi		Wyoming	
	Missouri			

SECTION E: GOODS, SERVICES, AND BUSINESS PROCESSES AND TECHNOLOGY

The following section collects information on this business's introduction of new or improved goods, services, or business processes that differed significantly from this business's previous goods, services, or processes.

The goods, services, or business processes must have characteristics or intended uses that are new or which provide a significant improvement over what was previously used or sold by this business. However, they can fail or take time to prove themselves.

The goods, services, or business processes need only be new or improved for this business. They could have been originally developed or used by other businesses or organizations.

The following section asks about the 2019 to 2021 time period, instead of one year as in other sections of this survey.
E.1 New or Improved Goods
During the three years 2019 to 2021, did this business introduce to the market any new or improved goods that differed significantly from this business's previous goods? This includes the addition of new functions or improvements to existing functions or user utility. Functions include quality, technical specifications, reliability, durability, economic efficiency during use, affordability, convenience, usability, and user friendliness. User utility includes attributes such as affordability and financial convenience.
Goods: usually a tangible object, such as a smartphone, furniture, or packaged software, but also includes digital goods, such as downloadable software, music and film. <i>Exclude the simple resale of new goods or changes of a solely aesthetic nature.</i>
□ Yes
□ No
E.2 New or Improved Services
During the three years 2019 to 2021, did this business introduce to the market any new or improved services that differed significantly from this business's previous services? This includes the addition of new functions or improvements to existing functions or user utility. Functions include quality, technical specifications, reliability, durability, economic efficiency during use, affordability, convenience, usability, and user friendliness. User utility includes attributes such as affordability and financial convenience.
Services: intangible activities, such as retailing, insurance, educational courses, air travel, consulting, etc.; also includes digital services. <i>Exclude the simple resale of new services.</i>
Yes
□ No
If you reported "No" to 'E.1 New or Improved Goods' and 'E.2 New or Improved Services,' skip to 'E.5 New or Improved Business Processes' on page 38.
E.3 Novelty of New or Improved Goods or Services
During the three years 2019 to 2021, did this business introduce any new or improved goods or services that differ significantly from goods or services previously offered by this business that were:
Select one for each row.
a. New to the market? This business introduced a new or improved good or service that was not previously offered by any of your competitors (it may have already been available in other markets)
b. New only to this business? This business introduced a new or improved good or service that was identical or very similar to products already offered by your competitors



E.4 Nev	v or Improved Goods or Services as a Percent of Total Sales		
	what percentage of this business's 'A.11 Domestic Sales and Revenues' in domestic s were attributable to or originated from domestic operations in the following categories?		
	must sum to 100% of total dollar amount reported for 'A.11 Domestic Sales and Reven	ues.'	
Estimat	tes are acceptable.	Perc	ent
a.	New or improved goods or services introduced during 2019 to 2021 that were new to the market		%
b.	New or improved goods or services introduced during 2019 to 2021 that were new only to this business		%
C.	Goods or services that were unchanged or only marginally modified during 2019 to 2021 (include the resale of new goods or services purchased from other companies)	. 00	%
	Total sales	in 2021 :	= 100%
	v and Improved Business Processes		
improve and resi	he three years 2019 to 2021, did this business introduce any of the following types of new d business processes that differed significantly (e.g., greater efficacy, resource efficiency, lience, affordability, convenience, and usability) from your previous business processes?		
Select	one for each row.	Yes	No
a.	Methods for producing goods or providing services (including methods related to engineering and related technical testing, analysis, and certification)		
b.	Logistics, delivery or distribution methods		
C.	Marketing methods for promotion, packaging, pricing, product placement, or after-sales services		
d.	Information and communication systems (including hardware, software, and data processing)		
e.	Administration and management activities (including decision-making, human resource management, and methods for accounting or other administrative operations)		
f.	Product and business process development activities (including activities to identify, develop, or adapt products or processes, or adopting new methodologies for developing products and processes)		
g.	Develop customer-specific solutions (i.e., customized goods or services)		
	ported less than 10 employees for 'A.8 Number of W-2 Paid Domestic Employees or ees/Owners,' skip to 'E.7 Technology R&D' on page 39.		
All other	rs continue to 'E.6 R&D Activities for Businesses with 10 or More Employees.'		
During 2	D Activities for Businesses with 10 or more Employees 2021, did this business perform or fund any R&D activities? Include activities that: This business performed Others paid this business to do This business paid others to do Yes		
	No		



	one for each row.	Yes	No
á	. Advanced computing (e.g., supercomputing, edge computing, cloud computing, data storage, advanced computing architectures)		
ŀ	Advanced sensing (e.g., machine vision, voice recognition, networked sensors and sensing, millimeter-wave radar, LIDAR, RFID, biointegrated sensors, electric grid measurement)		
(. Artificial intelligence (e.g., machine learning, planning, reasoning, and decision making)		
(. Autonomous systems and robotics (e.g., industrial robotics, automated guided vehicles (surface, aerospace, maritime))		
(. Additive manufacturing (e.g., additive manufacturing (3-D Printing), smart manufacturing)		
f	Biotechnology (e.g., genetic engineering, DNA synthesis, genetic sequencing, tissue engineering, biomanufacturing, bioinformatics)		
Ç	. Human-machine interfaces (e.g., augmented reality, virtual reality, braincomputer interfaces, human-machine teaming)		
ł	. Communication and networking technologies (e.g., radiofrequency and mixed signal circuits, antennas and components, spectrum management technologies, communications and network security, mesh networks/infrastructure independent communication technologies)		
i	Advanced financial technologies (e.g., digital technologies for distributed ledgers, blockchain)		
j	Advanced semiconductors and microelectronics (e.g., beyond CMOS electronics (including next generation semiconductor materials), design and electronic design automation (EDA) tools, manufacturing technologies and tooling, advanced lithography)		
ŀ	. Advanced engineering materials (e.g.,materials by design, metamaterials, nanomaterials, smart materials, AM alloys, biomimetic, flexible electronics, material property characterization additive manufactured parts)		
I	Renewable energy generation and storage (e.g., wind, solar, and bio-based generation, electric and hybrid engines, batteries and grid backup/storage)		
1	n. Advanced gas turbine engine technologies (e.g., aero, marine, industrial (power generation), enabling component technologies)		
1	. Advanced nuclear energy technologies (e.g., aero, marine, industrial (power generation), enabling component technologies)		

-CL (one for each row.				
a.	Advanced computing (e.g., supercomputing, edge computing, cloud computing, data storage, advanced computing architectures)	A lot	Somewhat	A little	Not at a
b.	Advanced sensing (e.g., machine vision, voice recognition, networked sensors and sensing, millimeter-wave radar, LIDAR, RFID, biointegrated sensors, electric grid measurement)				
c.	Artificial intelligence (e.g., machine learning, planning, reasoning, and decision making)				
d.	Autonomous systems and robotics (e.g., industrial robotics, automated guided vehicles (surface, aerospace, maritime)				
e.	Additive manufacturing (e.g., additive manufacturing (3-D Printing), smart manufacturing)				
f.	Biotechnology (e.g., genetic engineering, DNA synthesis, genetic sequencing, tissue engineering, biomanufacturing, bioinformatics)				
g.	Human-machine interfaces (e.g., augmented reality, virtual reality, brain-computer interfaces, human-machine teaming)				
h.	Communication and networking technologies (e.g., radiofrequency and mixed signal circuits, antennas and components, spectrum management technologies, communications and network security, mesh networks/infrastructure independent communication technologies)				
i.	Advanced financial technologies (e.g., digital technologies for distributed ledgers, blockchain)				
j.	Advanced semiconductors and microelectronics (e.g., beyond CMOS electronics (including next generation semiconductor materials), design and electronic design automation (EDA) tools, manufacturing technologies and tooling, advanced lithography)				
k.	Advanced engineering materials (e.g., materials by design, metamaterials, nanomaterials, smart materials, AM alloys, biomimetic, flexible electronics, material property characterization additive manufactured parts)				
l.	Renewable energy generation and storage (e.g., wind, solar, and bio-based generation, electric and hybrid engines, batteries and grid backup/storage)				
m.	Advanced gas turbine engine technologies (e.g., aero, marine, industrial (power generation), enabling component technologies)				
n.	Advanced nuclear energy technologies (e.g., aero, marine, industrial (power generation), enabling component technologies)				

If response to 'E.8. Use of Technologies - item c. Artificial intelligence' is "a lot" or "somewhat," continue to 'E.9.A Impact of Artificial Intelligence Technology Use.'								
Else if response to 'E.8. Use of Technologies - item I. Renewable energy generation and storage' is "a lot" or "somewhat," skip to 'E.9.B Impact of Renewable Energy Generation and Storage Technology Use.'								
All others skip to 'E.10 Source of Technology Capabilities' on page 42.								
E.9.A. Impact of Artifical Intelligence Technology Use During 2021, to what extent did this business's use of artificial intelligence technology impact your workforce for each of the following?								
Select one for each row. Increase Decrease No impact Don't know								
a. Number of workers employed at this business	. 🗆							
b. Skill level of workers employed at this business	. 🗆							
c. The scientific, technological, engineering, and mathematical skills of workers employed by this business	. 🗆							
d. Number of production workers	. 🗆							
e. Number of nonproduction workers	. 🗆							
f. Number of supervisory workers	. 🗆							
g. Number of nonsupervisory workers	. 🗆							
If response to 'E.8. Use of Technologies - item I. Renewable essemble to 'E.9.B Impact of Renewable Energy Ger All others skip to 'E.10 Source of Technology Capabilities' of	neration ar							
E.9.B. Impact of Renewable Energy Generation and Storage	e Technolo	av Use						
During 2021, to what extent did this business's use of renewable impact your workforce for each of the following?		~ -	torage techno	ology				
Select one for each row.	Increase	Decrease	No impact	Don't know				
a. Number of workers employed at this business	. 🗆							
b. Skill level of workers employed at this business	. 🗆							
c. The scientific, technological, engineering, and mathematical skills of workers employed by this business	. 🗆							
d. Number of production workers	. 🗆							
e. Number of nonproduction workers	. 🗆							
f. Number of supervisory workers	. 🗆							
g. Number of nonsupervisory workers	. 🗆							
g. Number of nonsupervisory workers								

E.10 Source of Technology Capabilities During the three years 2019 to 2021, did this business obtain the necessary technical expertise through any of the following means?					
Select o	one for each row.	Yes	No		
a.	Acquired technology products (machinery, equipment, software) from other firms or organizations				
b.	Acquired intellectual property (IP) rights, including patents, copyrights, and trademarks that give ownership, exclusion rights or rights to use technical knowledge				
C.	Modified or adapted existing technology to the firm's specific needs				
d.	Developed new technology (both hardware and software) in-house				

SECTION F: DESIGN AND INTELLECTUAL PROPERTY

The following set of questions asks about the role that design plays in your business. Design defined broadly is everywhere—decisions in the making of any good or service contribute to design. We are interested in collecting information on clear design activities defined as part of structured creative processes.

information on clear design activities defined as part of structured creative processes.	necting
F.1 Design Activities	
Does this business take a structured approach to conducting design activities?	
Design of goods can include the following: the "look" of manufactured products; function; ease of manufacturing; environmental sustainability or resilience; quality; or architectural design.	
Design of services can include the following: business processes (i.e., design thinking); customers experience; delivery of a service; or user experience (UX) that addresses interaction with goods, services, digital content by users.	or
□ Yes	
□ No – Skip to 'F.12 Future Design Activity Resources' on page 45.	
F.2 Resources for Design Activities	
Does this business provide resources for design activities?	
□ Yes	
□ No – Skip to 'F.4 Design-Related Engineering Activities.'	
F.3 Resource Budget for Design Activities	
Do those resources from 'F.2 Resources for Design Activities' have a budget?	
□ Yes	
□ No	
No F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities?	
F.4 Design-Related Engineering Activities	No
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting	No
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service. F.5 Resources for Design-Related Engineering Activities	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service.	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service. F.5 Resources for Design-Related Engineering Activities	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service. F.5 Resources for Design-Related Engineering Activities Does this business provide resources for design-related engineering activities? Yes	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service. F.5 Resources for Design-Related Engineering Activities Does this business provide resources for design-related engineering activities? Yes No - Skip to 'F.7 Design Activities Performance' on page 44.	
F.4 Design-Related Engineering Activities Does this business conduct the following design-related engineering activities? Select one for each row. Yes a. Prepare technical specifications including computer-aided drafting. b. Create first-time use of components or the initial tooling of equipment. c. Construct prototypes that include all the technical and performance characteristics of a new good or service. F.5 Resources for Design-Related Engineering Activities Does this business provide resources for design-related engineering activities? Yes No - Skip to 'F.7 Design Activities Performance' on page 44. F.6 Resource Budget for Design-Related Engineering Activities	

F.7 I	Design Activities Performance	
	any design activities performed by the following?	
Sele	ect one for each row. Yes	No
	a. Employees	
	b. Contractors	
Wha	Types of Employees and Design Activities at types of employees and/or contractors routinely perform design activities?	
	Designers	
	Key managers (e.g., in marketing, product, or website development)	
	Senior company leadership	
	Engineers, craft production, programmers, researchers, or other related positions	
	Other, (specify) 📈	
	j	ployees
How	O Organization of Design Employees vi are the employees and/or contractors who routinely perform design activities organized? ect all that apply.	
	As one or a few working independently	
	As a small team	
	As multiple teams and/or centralized design unit/department	
Wha	Approach to Design at is this business's approach to design? act all that apply.	
	Design is used to enhance the appearance and attractiveness of the final good or service	
	Design is integrated into the development of new goods or services	
	Design is a central directing element of the business model	
	Other, (specify) 📈	

How much do you expect this business's resources for design activities to change over the next th	ree years	s?
Increase substantially		
☐ Increase slightly		
□ No change		
Decrease slightly		
Decrease substantially		
F.13 Intellectual Property Protection Methods		
Does this business use the following methods to protect any intellectual property? Intellectual propatents, processes, and trade secrets; books and music; trademarks; recorded performances and erradio and television programs and motion pictures; broadcast and recorded live performances and their content; general use computer software; franchise fees; and other (e.g., digital media).	vents, su	ch as
Select one for each row.	Yes	No
a. Utility patents (patents for inventions, applied for or awarded)		
b. Design patents (patents for appearance, applied for or awarded)		
c. Copyright		
d. Trademarks		
F.14 Additional Intellectual Property Protection Methods		
Does this business use the following less formal means of protecting any intellectual property? Select one for each row.		
Select one for each row.	Yes	No
a. Design complexity	Ш	
a. Design complexity		
b. Nondisclosure agreements or non-compete clauses		

SECTION G: DOMESTIC AND FOREIGN TRANSACTIONS

This section collects information on selected domestic and global transactions. The section includes questions about costs and transactions involving contract manufacturing and design activities. The data will be used to assist public and private organizations better understand, plan, and make decisions affected by the relationship between domestic and foreign activities.

For questions requiring dollar amounts, estimates are acceptable.

G.1 Worldwide Operating Expenses

In 2021, what was this business's total worldwide operating expenses or costs?

Include:

- Cost of goods sold
- Cost of services sold
- Selling, general, and administrative (SG&A) costs so long as they are incurred to promote the selling and delivery of this business's products and services, i.e., advertising expense, sales commission expenses, office salaries, rent expense
- Depreciation expense
- Research and development expense

Exclude:

- Capitalized expenses
- Interest expense
- Income taxes
- Impairment reserves
- Losses on sales of assets

\$Bil.	Mil.	Thou.		Dol.	
			0	0 0	

G.2 Domestic Operating Expenses

In 2021, what was this business's total domestic operating expenses or costs?

Include:

- Cost of goods sold
- Cost of services sold
- Selling, general, and administrative (SG&A) costs so long as they are incurred to promote the selling and delivery of this business's products and services, i.e., advertising expense, sales commission expenses, office salaries, rent expense
- Depreciation expense
- Research and development expense

Exclude:

- Capitalized expenses
- Interest expense
- Income taxes
- Impairment reserves
- Losses on sales of assets

\$Bil.	Mil.	Thou.	Dol.		
			0	0	0

Total domestic operating expenses or costs.....

G.3 Activi	ties Conducted by Domestic Unaffiliated Companies		
	any <u>unaffiliated</u> companies located in the <u>United States</u> conduct any of the following a iness? <i>Unaffiliated companies include firms such as independent contractors and suppl</i>		
Select one	for each row.	Yes	No
a. Co	re production (cost of goods and services in your primary business activities)		
b. Di	stribution and logistics (include transportation costs)		
c. Ma	arketing, sales/after-sales services		
d. Ac	Iministrative or management functions		
un	search and development (R&D includes creative and systematic work dertaken in order to increase the stock of knowledge and to devise new plications of available knowledge)		
f. En	gineering and other technical services (includes testing and design		
g. Int	formation and Communication Technology (ICT) services		
h. Al	other operating expenses		
G.4 Activi	ties Conducted by Foreign Unaffiliated Companies		
for this bus	any <u>unaffiliated companies</u> located <u>outside the United States</u> conduct any of the followiness? <i>Unaffiliated companies include firms such as independent contractors and supple</i>		ities
Select one	for each row.	Yes	No
a. Co	re production (cost of goods and services in your primary business activities)		
b. Di	stribution and logistics (include transportation costs)		
c. Ma	arketing, sales/after-sales services		
d. Ad	Iministrative or management functions		
un	search and development (R&D includes creative and systematic work dertaken in order to increase the stock of knowledge and to devise new plications of available knowledge)		
	gineering and other technical services (includes testing and design		
g. Int	formation and Communication Technology (ICT) services		
h. Al	other operating expenses		

G.5 Activities Conducted by Foreign-Affiliated Companies		
In 2021, did any <u>affiliated companies</u> located <u>outside the United States</u> conduct any of the following ties for this business? (Affiliated companies located outside the United States may be a foreign sure a foreign parent).	ng activi- <i>ıbsidiary o</i>	r
Select one for each row.	Yes	No
a. Core production (cost of goods and services in your primary business activities)		
b. Distribution and logistics (include transportation costs)		
c. Marketing, sales/after-sales services		
d. Administrative or management functions		
e. Research and development (R&D includes creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge)		
f. Engineering and other technical services (includes testing and design other than R&D)		
g. Information and Communication Technology (ICT) services		
h. All other operating expenses		
G.6 Manufacturing Activities		
In 2021, did this business manufacture any goods in the United States? Includes processing, asserpacking and related services on materials and physical components.	mbly, labe	ing,
☐ Yes		
□ No		
G.7 Contracting Out Manufacturing		
In 2021, did this business contract out any manufacturing tasks or otherwise purchase manufacturing tasks or other		
Yes		
□ No - Skip to 'G.10 Contracting In Manufacturing' on page 49.		
G.8 Contracting Out Manufacturing by Company Type		
In 2021, who performed the manufacturing for this business's U.Slocated units or establishment	s?	
Select all that apply. U.Slocated unaffiliated companies		
Foreign-affiliated companies		
Foreign-unaffiliated companies		
G.9 Design for Contracting OutIn 2021, did this business provide or determine the design or specifications for goods, finished or	in-process	3,
manufactured for this business by any company type identified in the previous question?		
Yes		
□ No		

G.10 Contracting In Manufacturing
In 2021, did this business perform any manufacturing tasks for any unaffiliated company or affiliated companies located outside the United States?
□ Yes
No – skip to 'Section H: Coronavirus Pandemic Impact on Research and Development and Business Activities' on page 50.
G.11 Contracting In Manufacturing by Company Type
In 2021, on behalf of what types of companies did this business's U.Slocated units or establishments perform manufacturing activities?
Select all that apply.
U.Slocated unaffiliated companies
Foreign-affiliated companies
Foreign-unaffiliated companies
G.12 Design for Contracting In
In 2021, did this business provide or determine the design or specifications for any of the goods, finished or in-process, that were manufactured by your business for any company type identified in the previous question?
□ Yes
□ No

SECTION H: CORONAVIRUS PANDEMIC IMPACT ON RESEARCH AND DEVELOPMENT AND BUSINESS ACTIVITIES

The coronavirus pandemic resulted in major economic changes, as businesses reacted to a general shutdown that started in the United States in mid-March 2020. When answering the following questions, please consider how the coronavirus pandemic affected this business's research and development (R&D) activities.

H.1	R&D Changes Due to the Coronavirus Pandemic		
	21, did the following statements apply to this business's research and development o) in response to the coronavirus pandemic? <i>Select one for each row.</i>	Yes	No
	a. New R&D projects were started		
	b. Existing R&D projects were canceled		
	c. Existing R&D projects were disrupted or delayed		
	Check here if this business did not have R&D and skip to 'H.6 Effect of Coronavirus Pand Business Sales' on page 51.	lemic	on
	Impact of Coronavirus Pandemic on R&D Expenditures 21, did this business modify its in-house R&D expenditures in response to the coronavirus pa	ındem	ic?
	Yes, increased in-house R&D expenditures		
	Yes, decreased in-house R&D expenditures		
	No change in in-house R&D expenditures due to the coronavirus pandemic		
	Don't know		
Н.3	R&D Performance Due to Coronavirus Pandemic		
the c	21, did this business perform in-house R&D on coronavirus pandemic related R&D projects in coronavirus pandemic? For example, R&D to create self-sterilizing work surfaces; R&D to devel ID-19 diagnostic test; R&D to adapt LEDs to UV for light-weight air purification system, etc.	respo lop a	onse to
	Yes		
	No		
H.4	Impact of Coronavirus Pandemic on R&D Full-Time Equivalent Personnel		
	21, were there any changes to the number of full-time equivalent (FTEs) R&D personnel emplacted in response to the coronavirus pandemic by this business?	oyed o	or
	Yes, an increase in FTEs		
	Yes, a decrease in FTEs		
	No change in R&D personnel due to the coronavirus pandemic		
	Don't know		

H.5 Changing R&D Payment Due to the Coronavirus Pandemic
In 2021, did this business change the payments made to other organizations for R&D in response to the coronavirus pandemic?
Yes, increased payments made to other organizations for R&D due to the coronavirus pandemic
Yes, decreased payments made to other organizations for R&D due to the coronavirus pandemic
No change in payments made to other organizations for R&D due to the coronavirus pandemic
□ Don't know
When answering the following questions, please factor in the coronavirus pandemic and how it affected this business.
H.6 Effect of Coronavirus Pandemic on Business Sales
How would you assess the overall effect of the coronavirus pandemic on this business's sales in 2021?
Increased significantly
Increased somewhat
Had little to no change
☐ Decreased somewhat
☐ Decreased significantly
H.7 Financial Health of the Business
In 2021, how concerned were you about the financial health of this business?
□ Not that concerned
Somewhat concerned
☐ Very concerned
H.8 Outstanding Debt for the Business
What is the total amount of this business's current outstanding debt? Round to the page of thousand dollars of page report zero.
Round to the nearest one thousand dollars. If none, report zero.
□ Don't know
H.9 Level of Operations During the Coronavirus Pandemic
Will this business be able to maintain operations into the next year (2023)?
Yes, at or above the current level of operations
Yes, at or below the current level of operations
□ No
□ Don't know

ntact Name		Title		
rea code Phone number	Ext.			
-				
mail address				
Iditional Remarks: Please use this s	pace for any explan	ations that may b	e essential in und	erstanding your
oorted data.				

Definitions

Domestic (or U.S.-located):

Refers to a location in any of the U.S. 50 states and the District of Columbia.

Foreign parent (of a U.S.-located business):

The first entity outside the United States in an affiliate's ownership chain that has a direct or indirect investment interest of more than 50 percent of the affiliate's voting securities.

Intellectual property:

Includes patents, processes, and trade secrets; books and music; trademarks; recorded performances and events, such as radio and television programs and motion pictures; broadcast and recorded live performances and events and their content; general use computer software; franchise fees; and other (e.g., digital media).

Research and Development (R&D):

Research and development (R&D) comprise creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge.

The term R&D does NOT include expenditures for:

- Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project
- Market research
- Efficiency surveys or management studies
- Literary, artistic, or historical projects, such as films, music, or books and other publications
- Prospecting or exploration for natural resources

R&D activity in software INCLUDES:

- Software development or improvement activities that expand scientific or technological knowledge
- Construction of new theories and algorithms in the field of computer science

R&D activity in software EXCLUDES:

- Software development that does not depend on a scientific or technological advance, such as
 - supporting or adapting existing systems
 - adding functionality to existing application programs
 - routine debugging of existing systems and software
- Creation of new software based on known methods and applications
- Conversion or translation of existing software and software languages
- Adaptation of a product to a specific client, unless knowledge that significantly improved the base program was added in that process



